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ABSTRACT

Following the EuroMAB meeting in Strasbourg, France (September 1991) and on an initiative of the Man and the Biosphere National Committee of the United States, a decision was made to create a research network from information available in biosphere reserves in 30 European countries, Canada and the United States. This Directory of EuroMAB Biosphere Reserves summarizes information on 175 biosphere reserves in these 32 counties. Its purpose is to direct the reader to sources of data and other information on the ongoing scientific activities in these biosphere reserves. The text of the directory is organized alphabetically by country and provides information on national contacts for biosphere reserves, names of the biosphere reserves, administrative units, administering entities, locations in latitude and longitude coordinates, area in hectares of the administrative units, biome and biogeographical provinces, years designated as a biosphere reserve, administrative officers and telephone numbers, and principal monitoring and research themes. A large tabular summary of the scientific databases, research topics, and available site support for research in EuroMAB biosphere reserves follows the directory text. For each country, a biosphere location map indicates the general location of the biosphere reserve. (LZ)

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ED 406 133

International Cooperation of the
MAN AND THE BIOSPHERE (MAB) PROGRAMS
of Europe and North America

EuroMAB

ACCESS

A Directory of Contacts, Environmental Data Bases, and Scientific Infrastructure on 175 Biosphere Reserves in 32 Countries

Austria
Belarus
Bulgaria
Canada
Croatia
Czech Republic
Denmark
Estonia
Finland
France
Germany
Greece
Hungary
Italy
Kyrgyzstan
Malta
Netherlands
Norway
Poland
Portugal
Romania
Russia
Slovakia
Spain
Sweden
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Ukraine
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United States
Uzbekistan
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SE 055 027

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Man and the Biosphere Program Secretariat
UNESCO/MAB
1 rue Miollis
75015 Paris
France

Telephone: [33] (1) 4568-4068
FAX: [33] (1) 4065-9897

and

Customer Services Department of CIESIN
Consortium for International Earth Sciences Information Network (CIESIN)
2250 Pierce Road
University Center, Michigan 48710
USA

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and Scientific Affairs

Released July 1993

International Cooperation of the
MAN AND THE BIOSPHERE (MAB) PROGRAMS
of Europe and North America

EuroMAB

ACCESS

A Directory of Contacts, Environmental Data Bases, and Scientific Infrastructure on 175 Biosphere Reserves in 32 Countries

- Austria
- Belarus
- Bulgaria
- Canada
- Croatia
- Czech Republic
- Denmark
- Estonia
- Finland
- France
- Germany
- Greece
- Hungary
- Italy
- Kyrgyzstan
- Malta
- Netherlands
- Norway
- Poland
- Portugal
- Romania
- Russia
- Slovakia
- Spain
- Sweden
- Switzerland
- Turkmenistan
- Ukraine
- United Kingdom
- United States
- Uzbekistan
- Yugoslavia*

Secretariat for 1991-1993: France MAB
Telephone 33-61-28-53-38 FAX: 33-61-73-54-77

Secretariat Biosphere Reserves Intregated Monitoring Project: U.S. MAB
Telephone 1-703-235-2946 FAX: 1-703-235-3002

INTRODUCTION

Les preoccupations recentes en matiere d'observation de l'evolution des ecosystemes, des changements de differentes nature, de la biodiversite, font ressortir avec force la necessite de disposer d'outils de recherches appropries.

A la suite de la reunion EuroMAB tenue a Strasbourg en Septembre 1991 et a l'initiative du conseil national des USA il a ete decide de creer un reseau d'observation de BRIM (Biosphere Reserve Integrated Monitoring program). Il est certain que les 175 reserves reparties entre 32 pays constituent des renseignement comparatifs, measurables, et utiles. Ce sont des lieux de concentration de recherches et d'observation presentant en outre l'avantage d'etre concus pour le long terme. D'autre part la coexistence de ce reseau d'observation et d'experimentations dans le domaine de developpment durable ne peut qu'etre profitable.

Encore faut'il savoir qui fait quoi, comment et ou sont stockees des donnees et comment elles peuvent etre traitees?

L'outil qui doit permettre d'utiliser les outils est donc en train d'etre fabrique sans doute pour le profit de la gestion des reserves de la biosphere mais aussi pour celle d'une grand partie de notre planete.

Jacques Lecomte
Chair, France MAB
Chair, EuroMAB 1991-1993

Recent concerns resulting from observed changes in ecosystems, other types of changes in nature, and changes in biodiversity sharply underscore the need for appropriate research tools.

Following the EuroMAB meeting in Strasbourg in September 1991 and on an initiative of the Man and the Biosphere National Committee of the United States of America, a decision was made to create a research network from information available in biosphere reserves in 30 European countries and in Canada and the United States of America, the Biosphere Reserve Integrated Monitoring (BRIM) program. It is clear that the 175 biosphere reserves located in these 32 countries contain useful, measurable, comparative information. They have been identified as the areas where research and observation will be concentrated, and, in addition, have the advantage of having been designed for the long term. Also, the coexistence of this observation network and experimentation in the areas of sustainable development can only be beneficial.

There is still, though, a need to know: what, how, and where these data are being stored and how they will be processed.

This volume, the tool that should make it possible to use the available information, is therefore being created, undoubtedly, to utilize the tools available to benefit the management of biosphere reserves and, also, to benefit the management of a large part of our planet.

Jacques Lecomte
Chair, France MAB
Chair, EuroMAB 1991-1993

USE OF THIS DIRECTORY

This Directory of EuroMAB Biosphere Reserves summarizes information on biosphere reserves in 32 countries in Europe, Canada, and the United States. Its purpose is to direct the reader to sources of data and other information on the scientific activities currently ongoing in these biosphere reserves. It is the intent of the creators of this directory to encourage and facilitate communication and cooperation involving biosphere reserves in order to address environmental problems and to demonstrate the role of biosphere reserves in conservation and the sustainable use of ecosystems.

This directory provides a common information base for use by policy makers, planners, scientists, and resource managers in government agencies and nongovernmental organizations, as well as for private individuals interested in biosphere reserves. It will provide a basic reference for use in developing the scientific and educational functions of the EuroMAB biosphere reserve network, which, as of early 1993, includes 175 biosphere reserves in 32 countries.

The text of the directory is organized alphabetically by country, and within each country, alphabetically according to the name of the biosphere reserve. A large tabular summary follows the directory text. The tabular summary provides information on the scientific databases, research topics, and available site support for research in EuroMAB biosphere reserves.

The directory was compiled from information provided by the UNESCO MAB Secretariat, National MAB Committees, and biosphere reserve administrators. Specific information sources included published UNESCO compilations of information on biosphere reserves, biosphere reserve nomination applications prepared by National MAB Committees, and a 1987 UNESCO survey of biosphere reserves. A computer database, developed from the 1987 survey by Yale University, provided the initial basis for preparing the tabular summary at the end of the directory. The United States MAB Secretariat, in cooperation with other EuroMAB representatives, updated and expanded the database, and circulated the entire directory for review and verification by National MAB Committees participating in EuroMAB.

The following explanations are provided to assist users in interpretating the information in the directory:

National Contact for Biosphere Reserves.

The first page of each country's biosphere reserve directory lists the name, address, telephone number, and, where applicable, the facsimile transmission (FAX) number for the individual designated by the country's National Committee for Man and the Biosphere as the national contact for biosphere reserves. Users of the directory should direct general inquiries on national policies, programs, and activities relating to biosphere reserves to the national contact. A few recently established EuroMAB countries do not have a national MAB committee or a national contact for biosphere reserves. In these cases, users should direct general inquiries to the administrative officer or site manager of one of the country's biosphere reserves.

Telephone Numbers and FAX Numbers.

The directory lists these numbers according to a standard protocol to facilitate international dialing. The first number, listed in brackets, is the country code. The number contains from one to three digits. The second number, listed in parentheses, is the city or area code. The number, when required, contains from one to five digits. A "+" follows this number in the directory to separate country and city or area codes from the local telephone number. The local telephone number normally contains from three to eight digits.

Local telephone numbers of 5 digits or fewer are listed as unbroken numbers; larger numbers are broken into groups of three and four digits. Thus, a complete listing for a telephone number in the United States, for example, would be [1](202) + 555-5555. The need for operator assistance is indicated when required to complete a local call. Some countries require unique access codes for dialing within the country, and these requirements may differ from those for international dialing. The directory does not list these in-country requirements. Directory users should become familiar with any local requirements when making calls within the country.

The Biosphere Reserve Location Map

This directory contains a country map indicating the general location of the biosphere reserves for each EuroMAB participating country. The map shows the country boundary, adjacent states, and the names and locations of each of the country's biosphere reserves.

Biosphere Reserve Information Sheets

This directory includes a one page information sheet for each EuroMAB biosphere reserve. The **name of the biosphere reserve** is based on the January 1993 UNESCO listing. **Administrative units**, such as "national park" or "protected landscape area," are not included in the name, but are listed under Administrative Unit. Many biosphere reserves include multiple administrative units. For reserves containing two administrative units, both units are listed. For biosphere reserves containing three or more administrative units, the directory usually indicates "multiple units." Under **Administering Entity**, the directory lists the government agency, organization, or other entity (entities) primarily responsible for administering or coordinating the biosphere reserve. A few biosphere reserves contain an administrative unit in two countries. Each country's unit is administered autonomously in accordance with its applicable laws and regulations. In these cases, a separate one-page information sheet is provided for the unit in each country. The information sheets are cross-referenced.

The **Location** of the biosphere reserve is normally reported by the latitude and longitude coordinates for the approximate geographic center of the biosphere reserve. For very large sites, a range of coordinates is reported. For biosphere reserves containing two or more units, or clusters of units, that are widely separated geographically, the coordinates of the approximate geographic centers of these units or clusters of units are reported.

The **Area** of the biosphere reserve is the area in hectares of the administrative unit or units officially designated by UNESCO as the biosphere reserve. This area normally includes the core area(s) and buffer zone(s) of the biosphere reserve, but not the surrounding transition area, or zone of cooperation, except in cases where the latter is an officially designated component of the biosphere reserve.

The directory lists UNESCO's categorization of each biosphere reserve by **Biome** and **Biogeographical Province** as an indication of each site's general ecological characteristics. The categorization uses the Udvardy system of territorial biogeographic classification, which recognizes 14 biomes and 193 biogeographical provinces (M.D.F. Udvardy. 1975. A classification of the biogeographical provinces of the world. IUCN Occasionnal Paper No.18). If a site includes coastal or marine ecosystems, the biome listing notes the presence of these components.

The **Year Designated as a Biosphere Reserve** reflects the year UNESCO recognized the biosphere reserve under its current name. A few multiple unit biosphere reserves represent consolidation of administrative units originally designated as biosphere reserves under different names. The year of the original designation for each of these administrative units is not listed.

The **contact** for the biosphere reserve is normally a single individual who is responsible for administration and coordination of programs to implement biosphere reserve objectives as well as site protection and management. In some EuroMAB biosphere reserves, different individuals are responsible for administration and site management. In these cases, the directory provides a separate listing for the **administrative officer** and **site manager**.

The **telephone number** and, where applicable, the **FAX number** for the contact(s) are listed using the standard protocol described. If the biosphere reserve contact has access to an electronic mail system, the directory identifies the name of the E-mail system and the computer address.

Principal Monitoring and Research Themes reflect the activities of greatest emphasis in the biosphere reserve's ongoing scientific programs. The listing is based on information in published UNESCO documentation or provided directly by national MAB organizations or individual biosphere reserves.

The EuroMAB Biosphere Reserve Survey

At the end of the directory is a matrix of biosphere reserve survey information on categories of basic resource information, research topics, and site support for 169 of the 175 EuroMAB Biosphere Reserves designated as of early 1993. No data are available for six biosphere reserves. The survey table summarizes general information on the scientific activities, infrastructure, and facilities of each biosphere reserve. This information is provided to encourage communication involving biosphere reserves. Those interested in more detailed information may obtain this information from the designated contact individual for the biosphere reserve. An "X" under a category indicates that the category of activity applies to the biosphere reserve. A number under the category indicates the approximate duration of continuous or intermittent activity in years.

The survey table summarizes the availability of **Basic Resource Information** according to the broad headings of **biological inventory** (7 categories), **ecological monitoring** (10), **resource maps** (6), and **historical records** (6).

Research Topics are presented for **ecosystem cycles and processes** (7 categories), **species populations** (3), **pollution** (4), **human systems** (7), and **management practices** (10). The table identifies the categories for which the biosphere reserve has a record of previous or ongoing scientific activity.

Under the broad heading of **Site Support**, the survey table summarizes the availability, within the biosphere reserve, of **scientific infrastructure** (6 categories), **monitoring and research facilities** (6) and **permanent research staff**. An "X" under a category indicates that the facility or component of infrastructure is currently available at the biosphere reserve. For several categories, a number is provided. Under lodging for scientists, the number of scientists for whom lodging can be provided is indicated. Under permanent plots: lake/stream and permanent plots:vegetation, the number of plots established for long-term observations is indicated. Under watershed research site, the survey table indicates the number of watersheds used for conducting interdisciplinary studies. Under permanent research staff, the survey table records the number of scientists and technical support staff responsible for implementing the biosphere reserve's research program. For biosphere reserves having units in two countries, the table provides data for each unit.

Following the survey table, the directory provides additional data summaries to assist users interested in identifying opportunities for cooperation involving biosphere reserves in particular biomes. The first summary lists the number of each country's biosphere reserves by biome. The second lists, for each biome, the number of EuroMAB biosphere reserves (ex 170) with affirmative responses for each of the 76 information categories in the survey. The third lists the frequency of the data bases on the EuroMAB biosphere reserves.

EUROMAB COUNTRIES WITH BIOSPHERE RESERVES

Austria (4)
Belarus (1)
Bulgaria (17)
Canada (6)
Croatia (1)

Czech Republic (5 -- one joint with Poland)
Denmark (1)
Estonia (1)
Finland (1)
France (8)

Germany (12)
Greece (2)
Hungary (5)
Ireland (2)
Italy (3)

Kyrgyzstan (1, joint with Uzbekistan)
Netherlands (1)
Norway (1)
Poland (7 -- 1 joint with Czech Republic, 2 joint with Slovakia)
Portugal (1)

Romania (3)
Russia(14)
Spain (11)
Slovakia (4 -- 2 joint with Poland)
Sweden (1)

Switzerland (1)
Turkmenistan (1)
Ukraine (3)
United Kingdom (13)
United States (47)

Uzbekistan (1 - joint with Kyrgyzstan)
Yugoslavia* (1)

32 countries, 175 biosphere reserves (4 have units in 2 countries)

Note: Number of biosphere reserves in January 1993 is indicated in parentheses

ACKNOWLEDGMENTS FOR LEADERSHIP, GUIDANCE AND ASSISTANCE

This directory is the result of a process that started at the EuroMAB III Congress in September of 1991, in Strasbourg, France. EuroMAB is the cooperative framework for MAB Programs of the countries of Europe and North America and was established by UNESCO to promote intra-regional cooperation. Similar geopolitical regional cooperative MAB programs exist for Africa, Asia and Latin America.

At the EuroMAB III Congress, two scientific presentations attracted considerable attention of the delegates. The first presentation was by Dr. Caroline Bledsoe of the University of California, Davis, entitled "Networking the Networks." Drawing upon her experience as the coordinator of the Long Term Ecological Research Sites (LTERS) of the National Science Foundation, she pointed out that while many specialized scientific research sites and networks exist throughout the world, most were uniquely specialized and had little communication with other sites or networks. Yet, many sites in different networks do carry out apparently complementary research activities. She noted that the sharing of this information should be promoted to the wider scientific community beyond the narrowly specialized disciplines for which the specific network was initially established.

Dr. Bledsoe --with support from U.S. MAB and other funding sources --has, since 1991, organized two workshops to develop an inter-networks pilot project to determine if sites from various networks could indeed carry out, on a pilot basis, coordinated ecological research and monitoring programs. Copies of the workshops report, Ecological Network of Networks: Creating A Network to Study Ecological Effects of Global Climate Change, (eds. Caroline S. Bledsoe and Mary C. Barber) are available from the U.S. MAB Secretariat in Washington, D.C.

A second significant stimulus to this directory which was also presented at the EuroMAB III Congress was provided by Dr. Michael Ruggiero, Chief of the Wildlife and Vegetation Division of the National Park Service. He showed how standardized biological inventory measures can monitor biological diversity within protected areas, and serve as tools for management and budget decision making. Such standardized inventories if broadly based across biogeographical regions or biomes, could also be useful to policy makers for monitoring indicators of global change.

To Dr. Bledsoe and Dr. Ruggiero whose presentations stimulated the production of this directory, we acknowledge with gratitude their scientific leadership.

Following discussion of these presentations, Dr. Jaques Lecomte, Chairman of the Congress, appointed a small working group to further pursue the concepts as they related to activities which could be promoted among the biosphere reserves of Europe and North America. Consequently, Minister Counselor Wilfried Goerke and Mr. Juergen Nauber of Germany, Dr. Francisco Garcia Novo of Spain, Dr. Valerie Neronov of Russia, Dr. Michael Morris of the United Kingdom, along with Dr. Ruggiero met to further advance the concepts of inter-biosphere working relationships. This working group recognized that while much valuable ecological work was being accomplished on biosphere reserves -- some of it strikingly similar in essence -- little interchange had occurred except through some specialized bilateral research programs among individual scientists or publications in journals of the various specialized disciplines. What was needed, they determined, was a mechanism to open up the scientific resources of the biosphere reserves not only to those working on other biosphere reserves, but to the wider scientific community as well.

The group thought that EuroMAB's strength and relative advantage lay in its potential ability to integrate the multiple scientific data bases being compiled on biosphere reserves for purposes such as monitoring global change and changes in global/intra-regional biological diversity. Hence the project's acronym was created to reflect this "Biosphere Reserve Integrated Monitoring (BRIM)" project which would build upon the existing strengths of the reserves and not require a costly new initiative of the cooperating MAB programs.

Therefore, the group recommended that the EuroMAB III Congress commission a special study and work group to develop international linkages between the biosphere reserves in the EuroMAB region. The EuroMAB Congress accepted this recommendation.

To help implement this process, U.S. MAB offered to first carry out a survey of the existing Biosphere Reserves in the EuroMAB region to identify key scientific research and monitoring strengths of the reserves and to host a workshop within 6 months to further elaborate a program to promote inter-biosphere reserve communications.

A U.S. MAB interagency working group consisting of Dr. Paul Dunn, USDA Forest Service, Dr. Clive Jorgensen, the Department of Energy, Dr. Joann Roskoski of the National Science Foundation, Granville Sewell of the Department of State, Drs. Ruggiero and William Gregg of the National Park Service and Dr. William Jenkins of The Nature Conservancy was then established to assist the U.S. MAB Secretariat in developing the goals and a strategy for obtaining the desired information.

At the initial meeting of this group, Dr. William Gregg presented information concerning a 1987 survey of biosphere reserves which was conducted by UNESCO. The data base of information resulting from that survey had been given by UNESCO to Yale University. Dr. Gregg obtained a copy of the original data base from Yale, and was the leader in interpreting this database. The U.S. working group reviewed the contents of the UNESCO/Yale data base and identified approximately 65 fields of scientific data, site infrastructure and other information about the biosphere reserves in the EuroMAB region they thought would be most useful to the wider scientific community. The group concluded that one of the most effective ways in which this scientific information being gathered on biosphere reserves could be shared was to produce a directory of the biosphere reserves describing the available data and other relevant information.

At this point Mr. Mark Pankin of Arlington, Virginia was contracted with by the U.S. MAB Secretariat to develop the formats which appear in this directory. The computer skills and database manipulative ability of Mr. Pankin are truly appreciated as he has taken this data and made it possible for it to be more readily accessible and to be utilized by the scientific community. Mr. Pankin's helpful suggestions on formatting information for clarity were also most constructive and appreciated.

Within 45 days of returning from the EuroMAB Congress, the U.S. MAB Secretariat sent out to all "BRIM" coordinators an initial draft format containing the preliminary information gleaned from the UNESCO/Yale data base and other sources, and requesting, with a deadline of December 31, 1991, the return of whatever updated information could be obtained to add to the accuracy and utility of this directory.

By December 31, 1991, 60 percent of the 175 biosphere reserves in the 32 countries had responded within the given time frame. By the convening of the February 1992 U.S workshop on BRIM, over 70 percent had responded with corrected and updated information.

Nine countries sent delegates to the U.S. workshop at the U.S. MAB Secretariat. The delegates worked for 4 days, reviewing the information which the biosphere reserves had provided and discussed with experts developing international scientific research and monitoring programs.

The delegates decided to pursue the creation of five BRIM products to increase the utility, the inter-communications and the accessibility of the scientific community to the information being gathered on biosphere reserves. The recommended products were:

1. The publishing of this directory -- U.S. MAB agreed to spearhead this effort.

2. Produce a similar yet more descriptive and detailed directory concerning the permanent research plots on biosphere reserves. The MAB Programs of Germany and Spain (with Denmark later joining the effort) agreed to take the initial responsibility for developing this.

3. Develop a series of case studies specifically concerning social and demographic elements in biosphere reserves. Canada/MAB agreed to take the leadership position on this element.

4. Develop a standardized reporting format for biosphere reserves to document flora, fauna and the status of biological inventories. The MAB Programs of the Czech Republic, Slovak Republic, Sweden and the U.S. agreed to collaborative leadership for this project.

5. Develop a global change project proposal involving north/south transects utilizing biosphere reserves to the maximum extent, as well as utilizing alpine and high altitude sites as proxy measures for latitudinal gradients. Russia/MAB volunteered to develop this project proposal.

The February 1992 workshop had also noted the relative lack of information involving management plans and social science elements in the UNESCO survey data. They recommended that the sites should be re-surveyed to obtain additional information on these elements.

Therefore, U.S. MAB again surveyed the reserves -- an exercise which also provided an excellent opportunity to show the reserves an interim product and asked them to verify the accuracy of the information that the reserves had already supplied. Eight more categories of information were therefore added to the database matrix. Country and area coordinators were also called upon to contact those biosphere reserves to which communications were more difficult. Dr. Neronov deserves special appreciation in facilitating the gathering of information from biosphere reserves in the former Soviet Union.

The U.S. MAB Secretariat obtained the computer software program "MacGlobe" and utilized the maps from that program for the country contact pages. Andrew G. Soles of Mary Washington College, Virginia, working with Mr. Pankin, initially transferred the longitude and latitude coordinates to locate the biosphere reserve sites on the maps.

The updating and entering of all of this information was carried out by Ms. Erica Serabien, of the National Park Service who, working with Dr. Gregg, was key in developing and keying in the formats containing the site specific information on each biosphere reserve. Her patience and willingness to continually update the original data and make the numerous changes is most gratefully acknowledged.

In July of 1992, a second workshop on EuroMAB Brim was held, this one hosted by France MAB in Paris. This meeting was scheduled so that some of the BRIM participants could also participate in the UNESCO/International Geosphere Biosphere Program (IGBP) workshop on Global Change in Terrestrial Ecosystems and inform them about the BRIM project. Draft pages of this directory were reviewed and modified; country leaders of the other BRIM products reported on their progress and problems encountered in the process of implementing their BRIM sub-projects noted above.

By the time the 12th International Coordinating Conference of the UNESCO Man and the Biosphere Program was held in January 1993, in Paris, France, an initial draft of this directory had been completed. It was circulated to the EuroMAB delegates and a deadline of March was set for the submission of additions or corrections by the participating countries.

In the meantime, of course, some new countries emerged, spellings changed and some new biosphere reserves were recognized by the MAB Bureau. All of these changes, as well as the needed meticulous tasks of ensuring consistencies, were ably guided by Mrs. Cecile Ledsky of the U.S. MAB Secretariat staff. Mrs. Ledsky ably took on the tremendous task of ensuring the internal consistency of this directory as new nations emerged, others declined, spelling changed and changed back again. Her dedication and high professional standards were critical in producing this directory and ensuring its accuracy.

A final note of appreciation must also go to the UNESCO MAB staff who have now adopted the formats herein and will produce a directory including the nearly equal number of biosphere reserves in Asia, Africa and Latin America. Thus, a truly global directory of biosphere reserves is to be produced by the early autumn of 1993 and UNESCO is to be congratulated.

In sum, therefore, it is a pleasure to note that this directory will soon be outmoded by one considerably more comprehensive and expansive. One of the true potentials of the international network of biosphere reserves, to link the world's most extensive network of conservation reserves and scientific research sites is about to become a reality.

To all those who labored so diligently on ACCESS, and to their supervisors and managers who encouraged their participation and collaboration with the U.S. MAB Secretariat, your significant contributions are most appreciated and congratulations are due.

Roger E. Soles, Ph.D.
Executive Director
U.S. MAB

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- Romania
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- Sweden
- Switzerland
- Turkmenistan
- Ukraine
- United Kingdom
- United States
- Uzbekistan
- Yugoslavia*

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- Research Topics
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Tabular Data Summaries

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- Data Summaries by Biome
- Data Bases by Frequency

Country and Biosphere Reserve Information

NATIONAL CONTACT FOR BIOSPHERE RESERVES

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Secretary of the Austrian MAB National Committee

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Dr. Ignaz Seipel Platz, 2
A-1010 Wien
Austria

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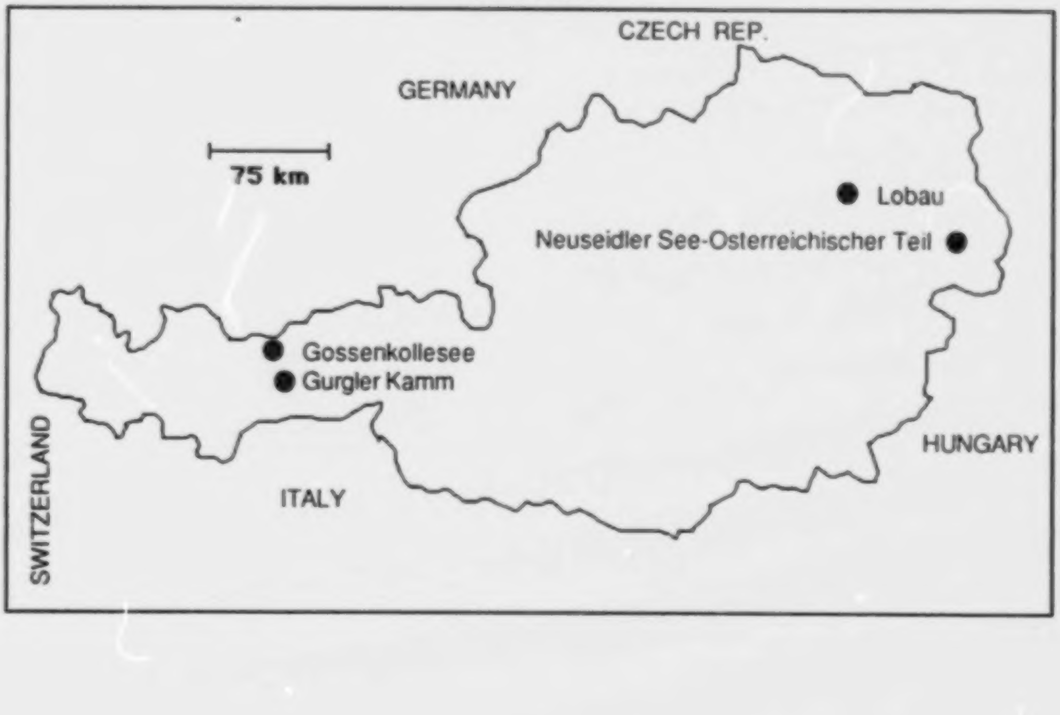
FAX: [43] (222) + 513-9541

BIOSPHERE RESERVE LOCATION MAP

AUSTRIA


CZECH REP.
GERMANY
75 km
Lobau
Neuseidler See-Osterreichischer Teil
Gossenkollesee
Gurgler Kamm
HUNGARY
ITALY
SWITZERLAND

Biosphere Reserve: **Gossenkollesee**

Administrative Unit:

Administering Entity: Local government

Location: 47°14'N, 1°01'E

Area (hectares): 100

Elevation Range: 2,413 (lake level) - 2,828m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Central European Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact:

Address:
Amt der Tiroler Landesregierung
Abteilung Umweltschutz
Sillgasse 8
A-6020 Innsbruck
Austria

Telephone: [43] (512) + 576-377
FAX: [43] (512) + 576-377-200

Principal Monitoring and Research Themes:

High mountain lake ecosystems
Quantitative autecological investigations
Environmental monitoring

Biosphere Reserve: Gurgler Kamm

Administrative Unit: Obergurgler Zirbenwald

Administering Entity: Local government

Location: 46°51'N, 11°04'E

Area (hectares): 1,500

Elevation Range: 1,900 - 3,400m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Central European Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact:

Address:

Amt der Tiroler Landesregierung
Abteilung Umweltschutz
Sillgasse 8
A-6020 Innsbruck
Austria

Telephone: [43] (512) + 576-377
FAX: [43] (512) + 576-377-200

Principal Monitoring and Research Themes:

Geology
Biological investigations
Mountain systems

Biosphere Reserve:	**Lobau**
Administrative Unit:	Lobau Reserve
Administering Entity:	Magistratsabteilung 22-Umweltschutz
Location:	48°10'N, 16°32'E
Area (hectares):	1,000
Elevation Range:	150 - 155m
Biome:	Mixed mountain systems with complex zonation
Biogeographic Province:	Central European Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Michael Kubik

Address:

Townhall of Vienna
Magistrats abteilung 22 Umweltschutz
Ebendorferstrasse 4
1082 Vienna
Austria

Telephone: [43] (222) 4000 88263
FAX: [43] (222) 4099 88211, 4099 88215

Principal Monitoring and Research Themes:

Limnological studies
Vegetation mapping
Botanical studies

Biosphere Reserve: Neusiedler See-Osterreichischer Teil

Administrative Unit:

Administering Entity: Mostly private ownerships; research administered by Illmitz Biological Station

Location: 47°40'-56'N, 16°40'-160°52'E

Area (hectares): 25,000

Elevation Range: 114m

Biome: Temperate broad-leaf forests

Biogeographic Province: Pannonian

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact:

Address:
Illmitz Biological Station
Abteilung 4 Nature und Landschaftsschutz
A-7142 Illmitz
Austria

Telephone: [43] (2175) + 2328
FAX: [43] (2175) + 232-810

Principal Monitoring and Research Themes:

Hydrological monitoring
Meteorological monitoring
Biological studies on migratory birds
Human impacts on lake biota
Eutrophication research

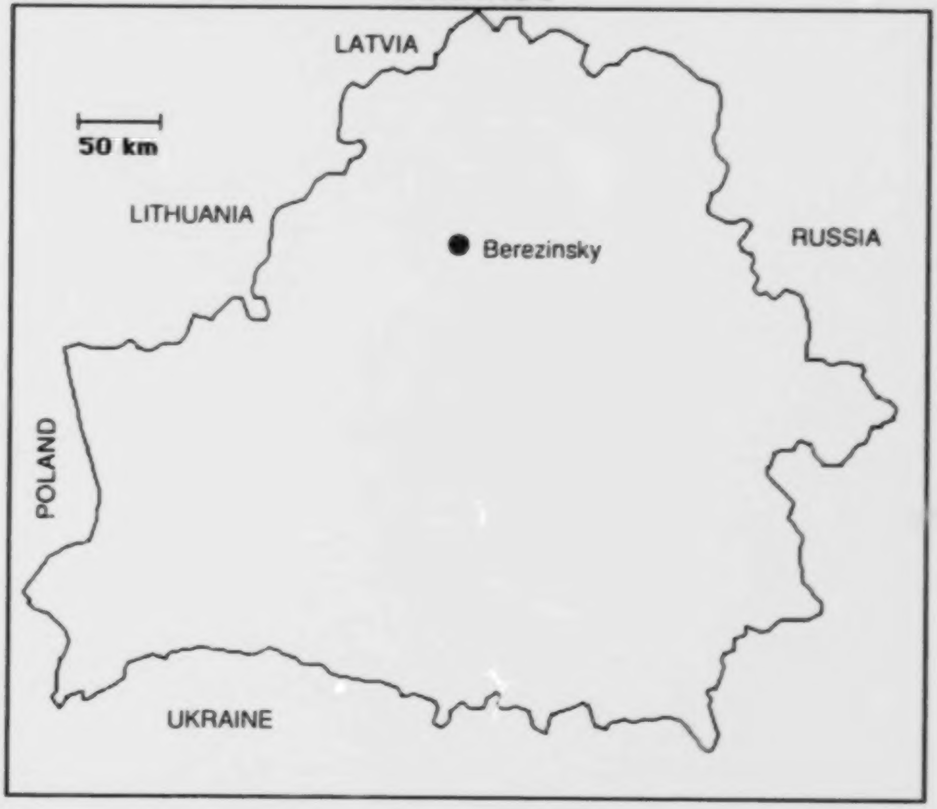
NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name: Vladimir Gonchar

Address:
211188, post. Domzheritsy
Lepel District
Vitebsk Region
Belarus

Telephone: [7] (02132) + 21380, + 26342, + 26343
FAX: [7] (0172) + 200-696

BIOSPHERE RESERVE LOCATION MAP
BELARUS


LATVIA
50 km
LITHUANIA
Berezinsky
RUSSIA
POLAND
UKRAINE

Biosphere Reserve: Berezinsky

Administrative Unit: Berezinsky Reserve

Administering Entity: Council of Ministers

Location: 54°30'N, 28°30'E

Area (hectares): 114,000

Elevation Range: 164 - 220m

Biome: Temperate broad-leaf forests

Biogeographic Province: Middle European Forest

Year Designated as biosphere reserve: 1979

Administrative Officer

Contact: Vladimir Gonchar

Address:
211188, p/o Domzheritsy
Lepel District
Vitebsk Region
Belarus

Telephones:
[7] (02132) + 21380
[7] (02132) + 26342
[7] (02132) + 26343

FAX: [7] (0172) + 200-696

Principal Monitoring and Research Themes:

Multimedia environmental monitoring (atmosphere, precipitation, soil, vegetation, animals)
Impact of agriculture and drainage on wetlands and woodlands

NATIONAL CONTACT FOR BIOSPHERE RESERVES

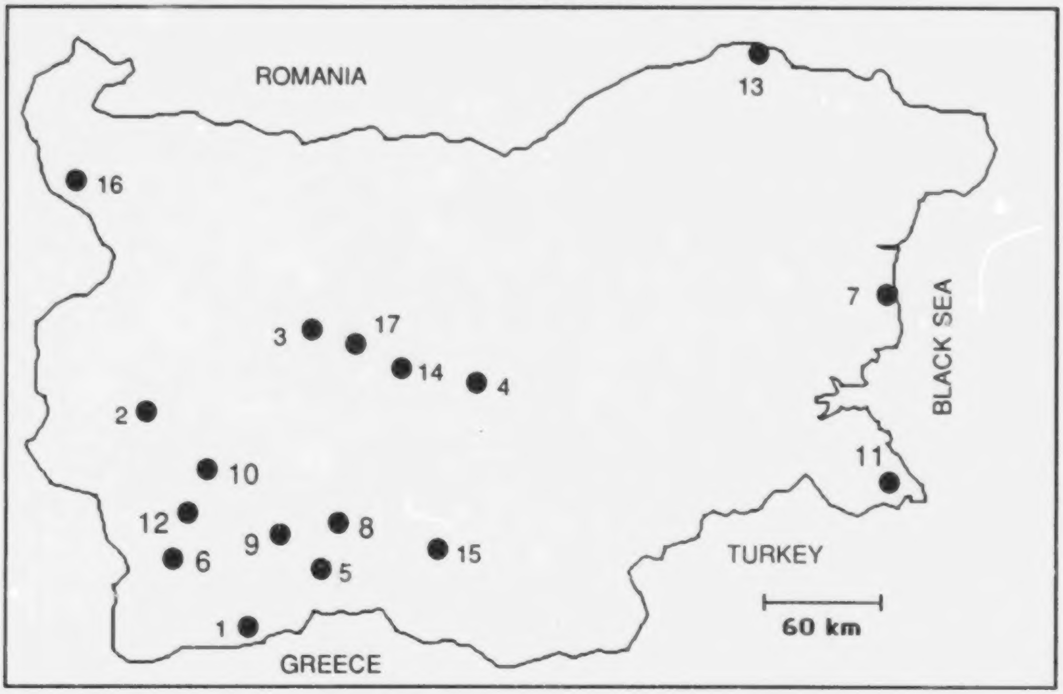
Name: Taniu Michev, Director
Ivan Yanchev, Technical Secretary

Address: Institute for Ecology
2 Gargarin Str.
Bulgarian Academy of Sciences
1113 Sofia
Bulgaria

Telephone: [359] (2) 705-498
FAX: [359] (2) 705-498

BIOSPHERE RESERVE LOCATION MAP

BULGARIA


ROMANIA
13
16
7
3
17
14
4
BLACK SEA
2
11
10
12
8
9
15
TURKEY
6
5
60 km
1
GREECE

1. Alibotouch
2. Bistrishko Branichte
3. Boatine
4. Djendema
5. Doupkata
6. Doupki-Djindjiritza
7. Kamchia
8. Koupena
9. Mantaritza
10. Marichini Ezera
11. Ouzounboudjak
12. Parangalitza
13. Srebarna
14. Steneto
15. Tchervenata Stena
16. Tchouprene
17. Tsaritchina

Biosphere Reserve: **Alibotouch**

Administrative Unit: Alibotouch Reserve

Administering Entity: Department of Forestry

Location: 41°25'N, 23°32'E

Area (hectares): 1,628

Elevation Range: 1,150 - 2,200m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Balkan Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Ivan Radoinova

Address:
Forestry Gotze Delchev
Sofia District
Bulgaria

Telephone: [359] (73) + --

Principal Monitoring and Research Themes:

Floristic studies
Avifaunal studies

Biosphere Reserve: **Bistrishko Branichte**

Administrative Unit: Bistrishko Branichte Reserve

Administering Entity: Department of Forestry

Location: 42°35'N, 23°15'E

Area (hectares): 1,177

Elevation Range: 1,450 - 2,280m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Balkan Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Todor Rochkov

Address:
National Park Vitosha
Sofia District
Bulgaria

Telephone: [359] + 870-052

Principal Monitoring and Research Themes:

Biosphere Reserve: **Boatine**

Administrative Unit: Boatine Reserve

Administering Entity: Department of Forestry

Location: 42°52'N, 24°20'E

Area (hectares): 1,281

Elevation Range: 750 - 1,900m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Balkan Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Borislav Bechsev

Address:
Forestry Cherni Vit
Cherni Vit
Lovetch District
Bulgaria

Telephone: [359] 227

Principal Monitoring and Research Themes:

Biosphere Reserve: **Djendema**

Administrative Unit: Djendema Reserve

Administering Entity: Department of Forestry

Location: 42°47'N, 24°45'E

Area (hectares): 1,775

Elevation Range: 600 - 2,376m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Balkan Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Georgi Bankov

Address:
Plovdiv District
Bulgaria

Telephone: [359] (335) + 26500

Principal Monitoring and Research Themes:

Biosphere Reserve: **Doupkata**

Administrative Unit: Doupkata Reserve

Administering Entity: Department of Forestry, Pazardhik Region

Location: 41°50'N, 24°15'E

Area (hectares): 1,867

Elevation Range: 1,000 - 1,645m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Balkan Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Georgi Kunev

Address:
Forestry Borovo
Plovdiv District
Bulgaria

Telephone: [359] 381

Principal Monitoring and Research Themes:

Biosphere Reserve: **Doupki-Djindjiritza**

Administrative Unit: Baiuva Doupki and Malka Djindjiritza Reserves

Administering Entity: Department of Forestry

Location: 44°48'N, 23°25'E

Area (hectares): 2,873

Elevation Range: 1,200 - 2,884m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Balkan Highlands

Year Designated as Biosphere Reserve: 1977

__Administrative Officer__

Contact: K. Ikonomov

Address:
NP Pirin,
Banksko
Bulgaria

Telephone: [359] (73) + 1287 or 2313

Principal Monitoring and Research Themes:

Floristic studies
Ecological studies of chamois

Biosphere Reserve: **Kamchia**

Administrative Unit: Kamchia Reserve

Administering Entity: Department of Forestry

Location: 43°02'N, 27°50'E

Area (hectares): 1,445

Elevation Range: 0 - 4m

Biome: Temperate broad-leaf forests
(includes costal/marine component)

Biogeographic Province: Balkan Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Ivan Dimitrov

Address:
Forestry Staro Oriahovo
Varna District
Bulgaria

Telephones: [359] (5141) + 2310, [359] (52) + 449-686

Principal Monitoring and Research Themes:

Biosphere Reserve:	**Koupena**
Administrative Unit:	Koupena Reserve
Administering Entity:	Department of Forestry
Location:	42°05'N, 24°20'E
Area (hectares):	2,800
Elevation Range:	650 - 1,410m
Biome:	Mixed mountain systems with complex zonation
Biogeographic Province:	Balkan Highlands

Year Designated as Biosphere Reserve: 1977

	Administrative Officer
Contact:	Vasil Iordanov
Address:	Forestry Peshtera, Plovdiv District Bulgaria
Telephone:	[359] (350) + 3885

Principal Monitoring and Research Themes:

Biosphere Reserve:	**Mantaritza**
Administrative Unit:	Mantaritza Reserve
Administering Entity:	Department of Forestry
Location:	41°58'N, 24°02'E
Area (hectares):	1,082
Elevation Range:	1,400 - 1,900m
Biome:	Mixed mountain systems with complex zonation
Biogeographic Province:	Balkan Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Svetoslav Meganov

Address:
Forestry Rakitovo
Plovdiv District
Bulgaria

Telephone: [359] (3512) + 2155

Principal Monitoring and Research Themes:

Silvicultural studies

Biosphere Reserve:	**Marichini Ezera**
Administrative Unit:	Marichini Ezera Reserve
Administering Entity:	Department of Forestry
Location:	42°14'N, 23°35'E
Area (hectares):	2,500
Elevation Range:	1,800 - 2,925m
Biome:	Mixed mountain systems with complex zonation
Biogeographic Province:	Balkan Highlands

Year Designated as Biosphere Reserve: 1977

	Administrative Officer
Contact:	Georgi Vulkov
Address:	Forestry Borovetz Sofia District Bulgaria
Telephone:	[359] (2) + 870-052

Principal Monitoring and Research Themes:

Biosphere Reserve:	**Ouzounboudjak**
Administrative Unit:	Ouzounboudjak Reserve
Administering Entity:	Department of Forestry
Location:	42°00'N, 27°45'E
Area (hectares):	2,575
Elevation Range:	150 - 200m
Biome:	Mixed mountain systems with complex zonation
Biogeographic Province:	Balkan Highlands

Year Designated as Biosphere Reserve: 1977

	Administrative Officer
Contact:	Dimo Kunev
Address:	Forestry Kosti Bourgaso District Bulgaria
Telephone:	[359] (56) + 442-984

Principal Monitoring and Research Themes:

Biosphere Reserve:	**Parangalitza**
Administrative Unit:	Parangalitza Reserve
Administering Entity:	Department of Forestry
Location:	42°15'N, 23°15'E
Area (hectares):	2,767
Elevation Range:	1,400 - 2,485m
Biome:	Mixed mountain systems with complex zonation
Biogeographic Province:	Balkan Highlands

Year Designated as Biosphere Reserve: 1977

	Administrative Officer
Contact:	Georgi Kalasbakov
Address:	Forestry Blagoevgrad Sofia District Bulgaria
Telephone:	[359] (73) + 23896

Principal Monitoring and Research Themes:

Research on game animals
Research on flora and vegetation
Silvicultural studies

Biosphere Reserve:	**Srebarna**
Administrative Unit:	Srebarna Nature Reserve
Administering Entity:	Research and Coordination Center for the Protection and Restoration of the Environment
Location:	44°05'N, 27°07'E
Area (hectares):	1,143
Elevation Range:	100m
Biome:	Temperate broad-leaf forests
Biogeographic Province:	Middle European Forest

Year Designated as Biosphere Reserve: 1977

	Administrative Officer
Contact:	Ivan Dimitrov
Address:	Forestry Silistra Bulgaria
Telephone:	[359] (86)

Principal Monitoring and Research Themes:

- Species population (long-term)
- Ecological requirements for species conservation

Biosphere Reserve: **Steneto**

Administrative Unit: Steneto National Park

Administering Entity: Department of Forestry

Location: 42°48'N, 24°40'E

Area (hectares): 6,101

Elevation Range: 650 - 2,166m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Balkan Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Kotcho Kochev

Address:
Forestry Cherni Osam
Lovetch District
Bulgaria

Telephone: [359] (377) + 6702

Principal Monitoring and Research Themes:

Forest vegetation studies
Faunal studies
Cave studies

Biosphere Reserve:	**Tchervenata Stena**
Administrative Unit:	Tchervenata Stena Reserve
Administering Entity:	Department of Forestry
Location:	41°52'N, 24°45'E
Area (hectares):	812
Elevation Range:	400 - 1,500m
Biome:	Mixed mountain systems with complex zonation
Biogeographic Province:	Balkan Highlands

Year Designated as Biosphere Reserve: 1977

	Administrative Officer
Contact:	Dimitar Djambazov
Address:	Forestry Asenovgrad Plovdiv District Bulgaria
Telephone:	[359] (331) + 23040

Principal Monitoring and Research Themes:

Floristic studies (relict forests)

Biosphere Reserve: **Tchouprene**

Administrative Unit: Tchouprene Reserve

Administering Entity: Department of Forestry

Location: 43°43'N, 22°30'E

Area (hectares): 1,982

Elevation Range: 1,300 - 2,000m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Balkan Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Blagoi Georgiev

Address:
Forestry Mihailovgrad
Department of Vidine
Bulgaria

Telephone: [359] (96) + 23541

Principal Monitoring and Research Themes:

Biosphere Reserve: **Tsaritchina**

Administrative Unit: Tsaritchina Reserve

Administering Entity: Department of Forestry

Location: 42°50'N, 24°30'E

Area (hectares): 3,359

Elevation Range: 400 - 1,500m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Balkan Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Liubomir Ivanov

Address:
Lovetch District
Bulgaria

Telephone: [359] (32) + 682-7960

Principal Monitoring and Research Themes:

Silvicultural research
Ornithological observations

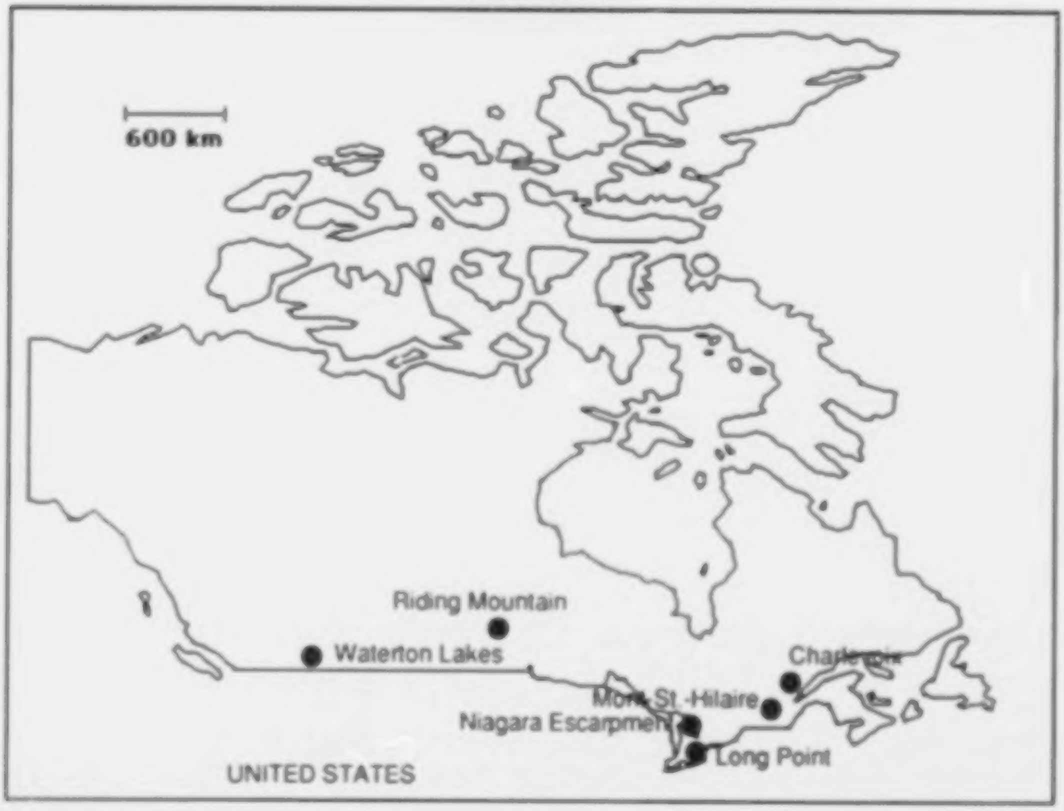
NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name: Mr. Bruce Amos

Address:
Chairman
Working Group on Biosphere Reserves
Canada/MAB
Canadian Commission for UNESCO
99 Metcalfe 54, C.P. 1047
Ottawa, Ontario K1P 5V8
Canada

Telephone: [1] (613) + 598-4330
FAX: [1] (613) + 598-4405

BIOSPHERE RESERVE LOCATION MAP
CANADA


600 km
Riding Mountain
Waterton Lakes
Charlevoix
Mont St.-Hilaire
Niagara Escarpment
Long Point
UNITED STATES

Biosphere Reserve: **Charlevoix**

Administrative Unit: Multiple units

Administering Entity: Corporation de la reserve mondiale de la biosphere de Charlevoix

Location: 47°15'-48°05'N, 69°55'-71°10'W

Area (hectares): 448,000

Elevation Range: 0 - 3,800m

Biome: Temperate needle-leaf forests (includes costal/marine component)

Biogeographic Province: Canadian Taiga

Year Designated as Biosphere Reserve: 1988

Administrative Officer

Contact: Charles Roberge

Address:
4, Place de l'Eglise
Baie-Saint-Paul, Quebec GOA IBO
Canada

Telephone: [1] (418) + 665-4454
FAX: [1] (418) + 665-3811

Principal Monitoring and Research Themes:

Aquatic ecosystems (integrated)
Atmospheric pollution
Avian and mammalian population dynamics
Biological inventory (fish, mammals, invertebrates, vascular plants)
Ethnobiology
Geology and geomorphology
Long-term ecological monitoring
Multidisciplinary ecosystem characterization
Silvicultural/forest management
Soil utilization

Biosphere Reserve: **Long Point**

Administrative Unit: Multiple units (4)

Administering Entity: Long Point Biosphere Reserve Executive Committee

Location: 43°35'N, 80°20'W

Area (hectares): 27,000

Elevation Range: 175 - 188m

Biome: Lake systems
(includes costal/marine component)

Biogeographic Province: Great Lakes

Year Designated as Biosphere Reserve: 1986

Administrative Officer

Contact:
David Reid, Chairman
Arthur Langford, Secretary

Address:
Biosphere Reserve Executive Committee
General Delivery
Port Rowan, Ontario NOE 1MO
Canada

Telephone: [1] (519) + 586-7122 (Secretary)

Principal Monitoring and Research Themes:

Long-term avian observations, including annual waterfowl census
Wildlife management research
Fisheries research
Recreation studies
Effects of industrial development

Biosphere Reserve: **Mont-Saint-Hilaire**

Administrative Unit: Centre de conservation de la nature du Mont-Saint-Hilaire

Administering Entity: McGill University

Location: 45°33'N, 75°10'W

Area (hectares): 5,550

Elevation Range: 106 - 416m

Biome: Temperate broad-leaf forests

Biogeographic Province: Eastern forest

Year Designated as Biosphere Reserve: 1978

Administrative Officer

Contact: Michel Drew

Address:
422, rue des Moulins
Mont-Saint-Hilaire, Quebec J3G 4S6
Canada

Telephone: [1] (514) + 467-1755
FAX: [1] (514) + 467-4074

Principal Monitoring and Research Themes:

Zoological studies
Geological and pedological studies
Meteorology
Applied geophysics

Biosphere Reserve: **Niagara Escarpment**

Administrative Units: Multiple units (includes more than 100 protected areas), many ownerships

Administering Entity: Niagara Escarpment Commission and Canadian Parks Service

Location: 43°10'-45°15N, 79°03'-81°40'W

Area (hectares): 207,240

Elevation Range: 90 - 560m

Biome: Temperate broad-leaf forests

Biogeographic Province: Eastern Forest

Year Designated as Biosphere Reserve: 1990

	Administrative Officer	Site Manager
Contacts:	Richard Murzin MAB Liaison Officer Nars Borodczak Director Niagara Escarpment Commission	Robert Day Superintendent Bruce Peninsula National Park
Addresses:	232 Guelph Street Georgetown, Ontario L7G 4B1 Canada	P.O. Box 189 Tobermory, Ontario N0H 2R0 Canada
Telephone:	[1] (416) + 877-5191	[1] (519) + 596-2233
FAX:	[1] (416) + 873-7452	[1] (519) + 596-2298

Principal Monitoring and Research Themes:

Acidic deposition
Human systems
Cultural anthropology
Resource mapping
Ecosystem restoration
Anthropogenic pollutants
Biological surveys of flora and fauna
Ecosystem studies/succession/fire effects
Mining reclamation
Fish/wildlife population dynamics
Great Lakes level changes
Recreation/tourism impacts

Biosphere Reserve:	**Riding Mountain**
Administrative Unit:	Multiple units (3)
Administering Entity:	Riding Mountain Biosphere Reserve
Location:	50°30'-51°01'N, 99°31'-101°05'W
Area (hectares):	297,591
Elevation Range:	318 - 755m
Biome:	Temperate needle-leaf forests and Temperate grasslands
Biogeographic Province:	Canadian Taiga and Grasslands

Year Designated as Biosphere Reserve: 1986

	Administrative Officer	Site Manager
Contact:	Ray Armbruster	Mac Estabrook
Address:	P.O. Box 428 Rossburn, Manitoba R0J 1V0 Canada	Riding Mountain National Park Wasagaming, Manitoba R0J 2H0 Canada
Telephones:	[1] (204) + 859-2088	[1] (204) 848-2811
FAX:	[1] (204) + 848-2596	[1] (204) 848-2596
E-Mail:	--	--

Principal Monitoring and Research Themes:

Ecology/population dynamics of mammals
Grassland ecology
Small watershed ecosystems (long-term)

Biosphere Reserve: **Waterton Lakes**

Administrative Unit: Waterton Lakes National Park

Administering Entity: Waterton Biosphere Association

Location: 49°00'-49°12'N, 113°39'-114°10'W

Area (hectares): 52,597

Elevation Range: 1,274 - 2,918m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Rocky Mountains

Year Designated as Biosphere Reserve: 1979

	Administrative Officer	Site Manager
Contact:	Larry Frith	Merv Syroteuk
Address:	Twin Butte, Alberta T0K 2J0 Canada	Waterton Lakes National Park Waterton, Alberta T0K 2M0 Canada
Telephone:	[1] (403) + 627-2065	[1] (403) + 859-2262
FAX:	[1] (403) + 859-2650	[1] (403) + 859-2650

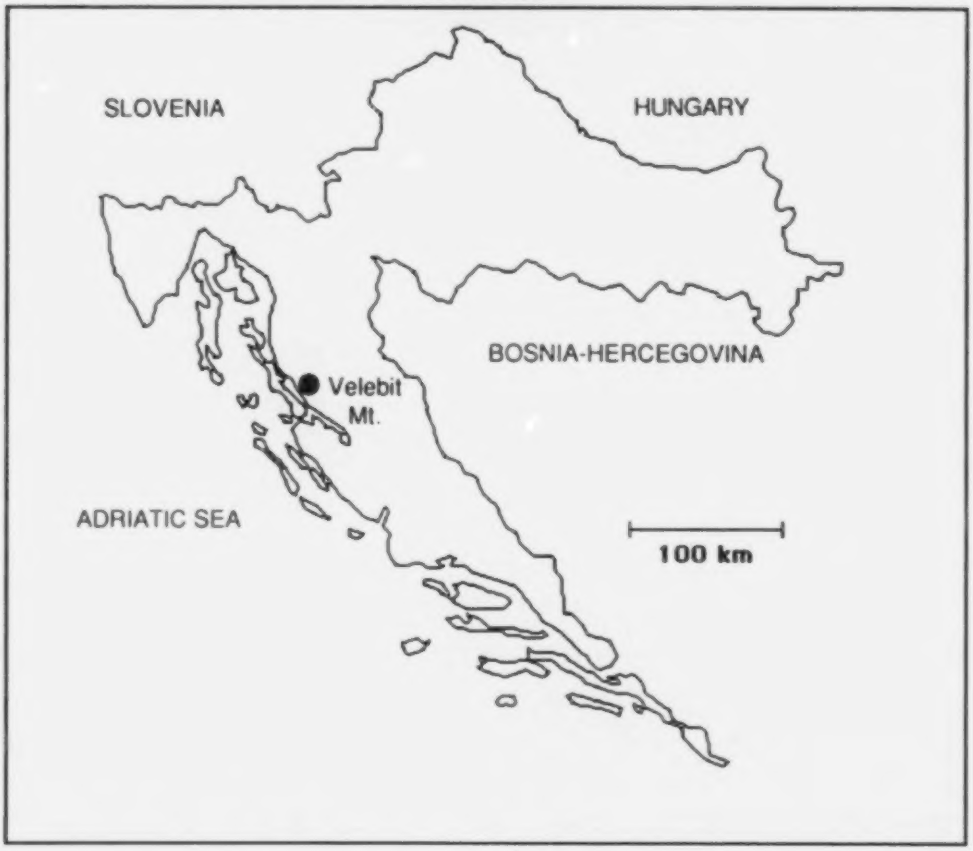
Principal Monitoring and Research Themes:

- Limnology
- Wildlife population dynamics
- Ecology
- Pedology
- Archaeology

No Named Contact for Biosphere Reserves

See Biosphere Reserve Manager

BIOSPHERE RESERVE LOCATION MAP
CROATIA


SLOVENIA
HUNGARY
BOSNIA-HERCEGOVINA
Velebit Mt.
ADRIATIC SEA
100 km

Biosphere Reserve: **Velebit Mountain**

Administrative Unit: Velebit Nature Park

Administering Entity: State government of Croatia

Location: 44°15'-45'N, 15°00'-45'E

Area (hectares): 150,000

Elevation Range: 200 - 1,757m

Biome: Evergreen sclerophyllous woodlands

Biogeographic Province: Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact:

Address:
National Park Paklenica
Zadar
Croatia

Telephone: [38] (57) +

Principal Monitoring and Research Themes:

Geomorphology
Cave studies
Research on plant communities

NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name:
Prof. Jan Jenik, Chairman
Dr. Vera Hruskova
Secretary, MAB National Committee

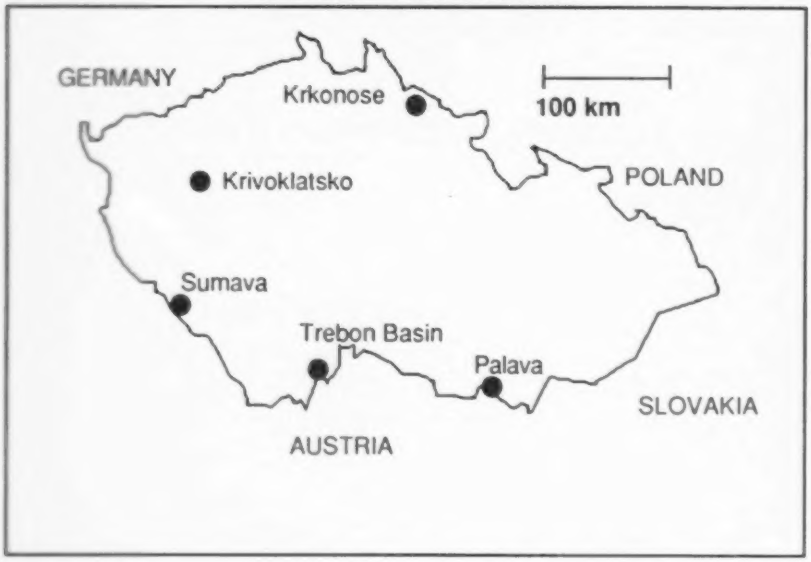
Address:
Academy of Sciences of the Czech Republic
Narodni tr. 3
Prague 1
Czech Republic 17000

Telephone:
[42] (2) + 235-8065, ext. 420,
[42] (2) + 297-941, ext. 3302

FAX:
[42] (2) + 265-671

BIOSPHERE RESERVE LOCATION MAP

CZECH REPUBLIC


GERMANY
Krkonose
100 km
Krivoklatsko
POLAND
Sumava
Trebon Basin
Palava
SLOVAKIA
AUSTRIA

Biosphere Reserve: **Krivoklatsko**

Administrative Unit: Krivoklatsko Protected Landscape Area and Biosphere Reserve

Administering Entity: Krivoklatsko Administration/Sprava chranene krajinne oblasti Krivoklatsko

Location: 50°00'N, 13°52'E

Area (hectares): 62,792

Elevation Range: 223 - 616m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Central European Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Petr Stepanek

Address:
Zbecno 5
270 24
Czech Republic

Telephone: [42] (313) + 98834

Principal Monitoring and Research Themes:

Biogeochemical cycling and energy transfer in small watersheds
Abiotic, biotic and human environment
Structure/function of forest ecosystems
Threatened and rare plants
Biogenetic studies
Zoology/malacology
Geology

Biosphere Reserve: **Krkonose**
(see also Karkonosze Poland)

Administrative Unit: Krkonose National Park

Administering Entity: Biosphere Reserve Administration,
Czech Ministry of the Environment

Location: 50 35'-49'N, 15 23'-53E

Area (hectares): 54,787

Elevation Range: 480 - 1,602m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Central European Highlands

Year Designated as Biosphere Reserve: 1992

Administrative Officer

Contact:
Jan Stursa
Jiri Flousek

Address:
Vrchlabi - Zamek
543 11
Czech Republic

Telephone: [42] (438) + 21011
FAX: [42] (438) + 23095

Principal Monitoring and Research Themes:

Impact of air pollution on montane, subalpine and alpine ecosystem: air and water quality, pedology, pedobiology, hydrology, hydrobiology, forestry, botany, entomology, vertebratology.
Forest and agricultural management in the mountain areas

Biosphere Reserve: **Palava**

Administrative Unit: Palava Protected Landscape Area and Biosphere Reserve

Administering Entity: Palava Administration/Sprava chranene krajinne oblasti Palava

Location: 48°50'N, 16°40'E

Area (hectares): 8,017

Elevation Range: 163 - 550m

Biome: Temperate broad-leaf forests

Biogeographic Province: Middle European Forest

Year Designated as Biosphere Reserve: 1988

Administrative Officer

Contact: Jiri Matuska

Address:
Namesti 32
Mikulov
692 01
Czech Republic

Telephone: [42] (625) + 2585

Principal Monitoring and Research Themes:

Climate
Vegetation
Soils hydrology
Landscape dynamics
Plant populations monitoring
Animal populations monitoring
Ecology of riverine forests (long-term)

Biosphere Reserve: **Sumava**

Administrative Unit: Sumava National Park and Biosphere Reserve

Administering Entity: Sumava Administration/Sprava narodniho parku a chranene krajinne oblasti Sumava

Location: 49°01'N, 13°34'E

Area (hectares): 167,117

Elevation Range: 470 - 1,378m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Central European Highlands

Year Designated as Biosphere Reserve: 1990

Administrative Officer

Contact: Jiri Kec

Address:
Vimperk-Zamek
385 01
Czech Republic

Telephone: [42] (339) + 21335
FAX: [42] (339) + 22947

Principal Monitoring and Research Themes:

- Multidisciplinary basic and applied research program
- Air pollutant/acidic deposition
- Climatological monitoring
- Boreo-alpine insects of north and central European peatlands
- Ecological monitoring
- Hydrobiology of lake systems

Biosphere Reserve: **Trebon Basin**

Administrative Unit: Trebon Basin Protected Landscape Area/Biosphere Reserve

Administering Entity: Trebonsko Administration/Sprava chranene krajinne oblasti Trebonsko

Location: 49°00'N, 14°50'E

Area (hectares): 70,000

Elevation Range: 407 - 613m

Biome: Temperate broad-leaf forests

Biogeographic Province: Middle European Forests

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Jiri Janda

Address:
Valy 121
Trebon
379 01
Czech Republic

Telephone: [42] (333) + 3097

Principal Monitoring and Research Themes:

- Abiotic, biotic, and human environment
- Structure/function of ecosystems
- Interrelationships of natural and agricultural ecosystems
- Algal ecology
- Plant communities
- Wetlands

NATIONAL CONTACT FOR BIOSPHERE RESERVES

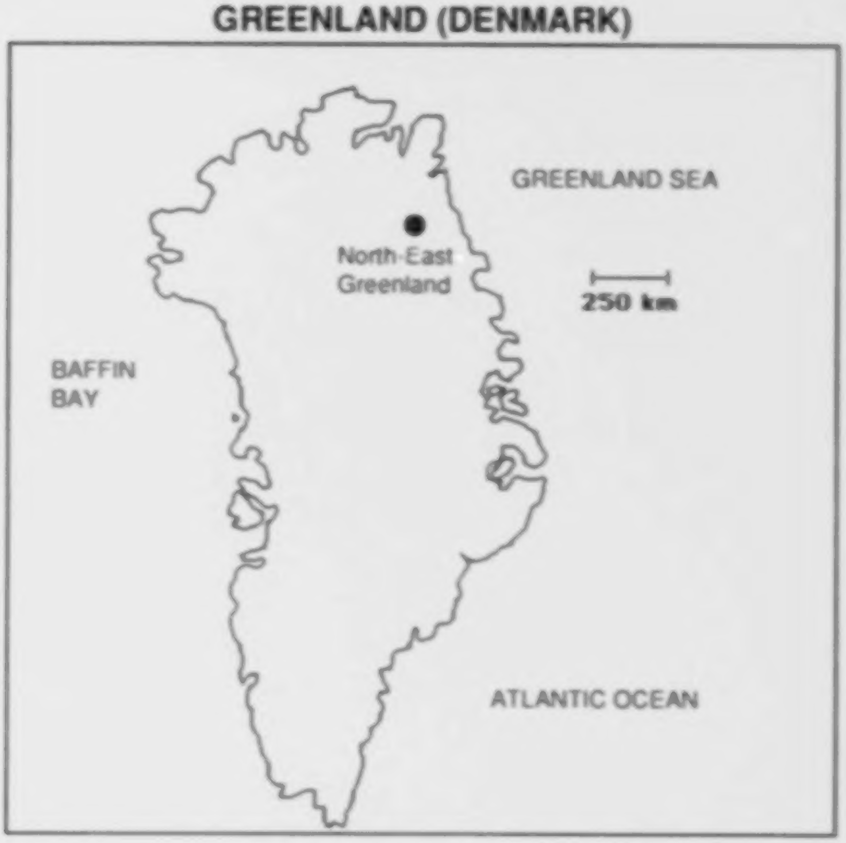
Name: Henning Thing

Address:
Danish Polar Center
Strandgadge 100H
DK-1401 Copenhagen
Denmark

Telephone: [45] (32) + 880-100
FAX: [45] (32) + 880-101

BIOSPHERE RESERVE LOCATION MAP

GREENLAND (DENMARK)


GREENLAND SEA
North-East
Greenland
250 km
BAFFIN
BAY
ATLANTIC OCEAN

Biosphere Reserve:	**North-East Greenland**
Administrative Unit:	North-East Greenland National Park
Administering Entity:	National Park Administration
Location:	71-83°N, 11°39'-63'E
Area (hectares):	97,000,000
Elevation Range:	0 - 3,000m
Biome:	Tundra (includes costal/marine component)
Biogeographic Province:	Arctic desert and icecap

Year Designated as Biosphere Reserve: 1977

	Administrative Officer	Site Manager
Contact:	Peter Nielsen	Henning Thing
Address:	c/o Directorate for Health and Environment P.O. Box 1170 DK-3900 Nuuk Greenland	Danish Polar Center Strandgadke 100H DK-1401 Copenhagen Denmark
Telephone:	[299] + 23000	[45] (32) + 880-100
FAX:	[299] + 24693	[45] (32) + 880-101
E-Mail:		OMNET H. Thing/Omnet

Principal Monitoring and Research Themes:

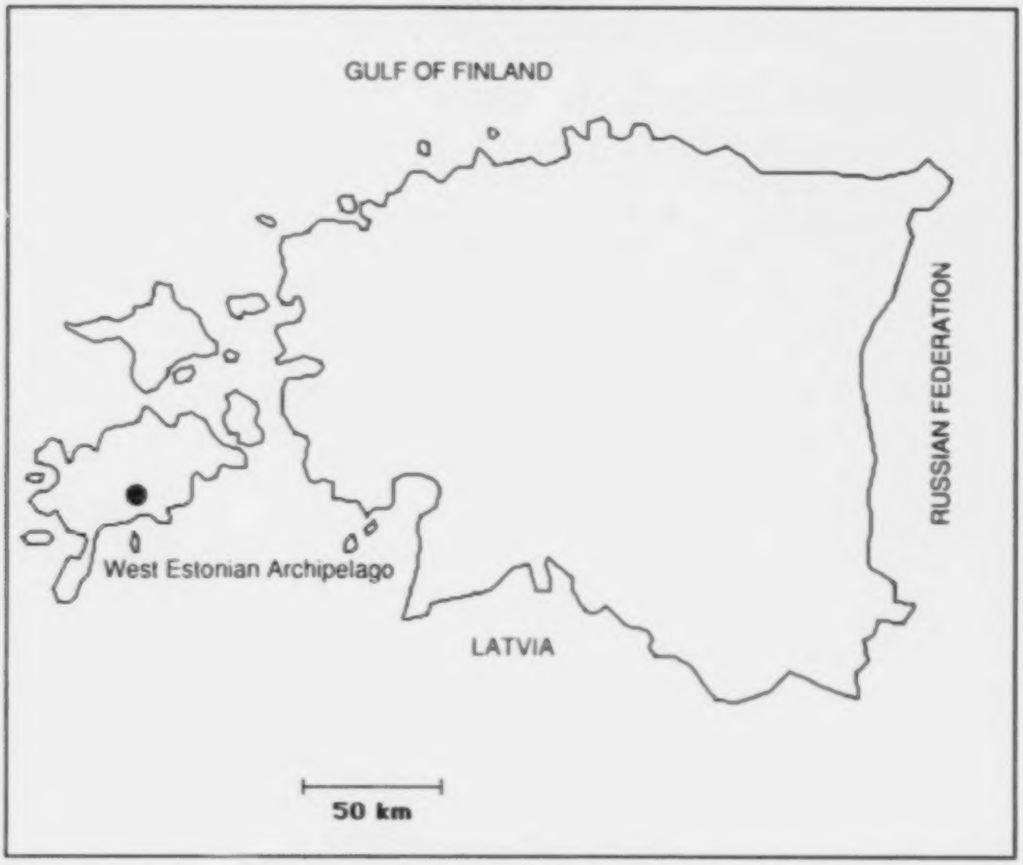
Littoral, limnetic, and terrestrial ecosystems
Glaciology

No Named Contact for Biosphere Reserves

See Biosphere Reserve Manager

BIOSPHERE RESERVE LOCATION MAP

ESTONIA


GULF OF FINLAND
RUSSIAN FEDERATION
West Estonian Archipelago
LATVIA
50 km

Biosphere Reserve: **West Estonian Archipelago**

Administrative Unit: Multiple Units

Administering Entity: State Biosphere Reserve Board (proposed)

Location: 58°30'N, 22°50'E

Area (hectares): 1,559,866
(403,778 terrestrial, 1,156,078 marine)

Elevation Range: 0 - 63m

Biome: Temperate broad-leaf forests
(includes costal/marine component)

Biogeographic Province: Boreonemoral

Year Designated as Biosphere Reserve: 1990

Administrative Officer

Contact:

Address:
West Estonian Archipelago Biosphere
P.O. Box 209
Kuressaare 203 300
Estonia

Telephone: [7] (0142) + 2455-7975

Principal Monitoring and Research Themes:

Biological inventory
Land use and management
Natural and human systems

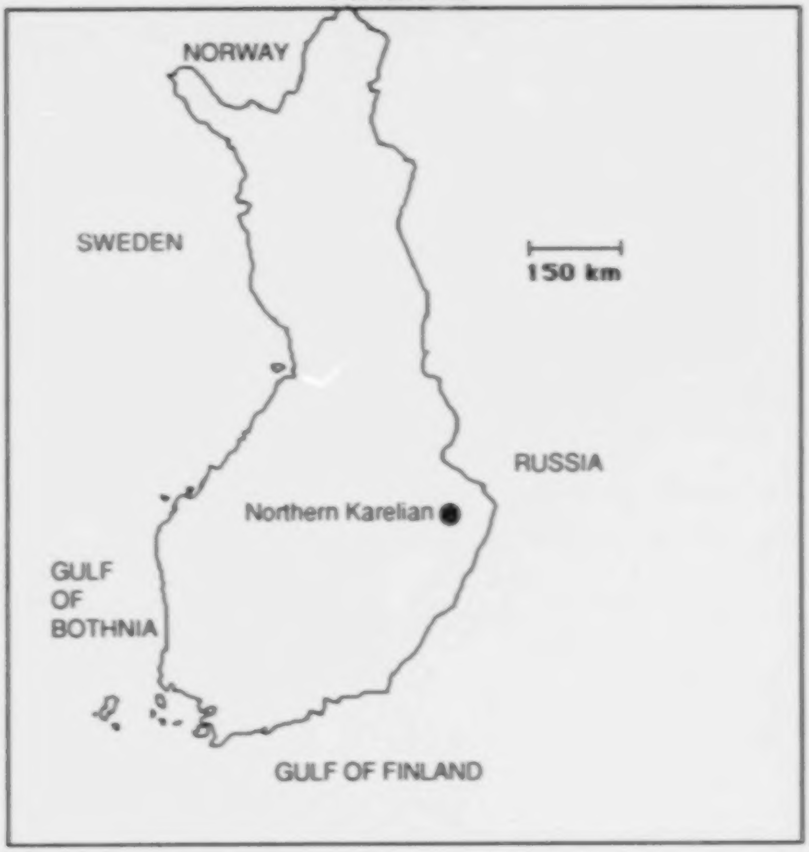
NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name: M.Sc. Irma Peltola, Secretary
Finnish National MAB Committee

Address: The Academy of Finland
P.O. Box 57
SF 00551 Helsinki
Finland

Telephone: [358] (0) + 775-81
FAX: [358] (0) + 775-8299

BIOSPHERE RESERVE LOCATION MAP FINLAND


NORWAY
SWEDEN
150 km
RUSSIA
Northern Karelian
GULF OF BOTHNIA
GULF OF FINLAND

Biosphere Reserve: **Northern Karelian**

Administrative Unit: Patvinsuo and Petkeljarvi National Parks, Koivusuo Strict Nature Reserve, and Kesonsuo Nature Reserve

Administering Entity: National Board of Forestry and private administration

Location: 63°N, 31°E

Area (hectares): 350,000

Elevation Range: 115 - 288m

Biome: Temperate needle-leaf forests or woodlands

Biogeographical Province: West Eurasian Taiga

Year Designated as Biosphere Reserve: 1992

Site Manager

Contact: Timo J. Hokkanen

Address:
University of Joensuu
Mekrijarvi Research Station
SF-82900 Ilomantsi
Finland

Telephone: [358] (974) + 46151
FAX: [358] (974) + 48188

Principal Monitoring and Research Themes:

NATIONAL CONTACT FOR BIOSPHERE RESERVES

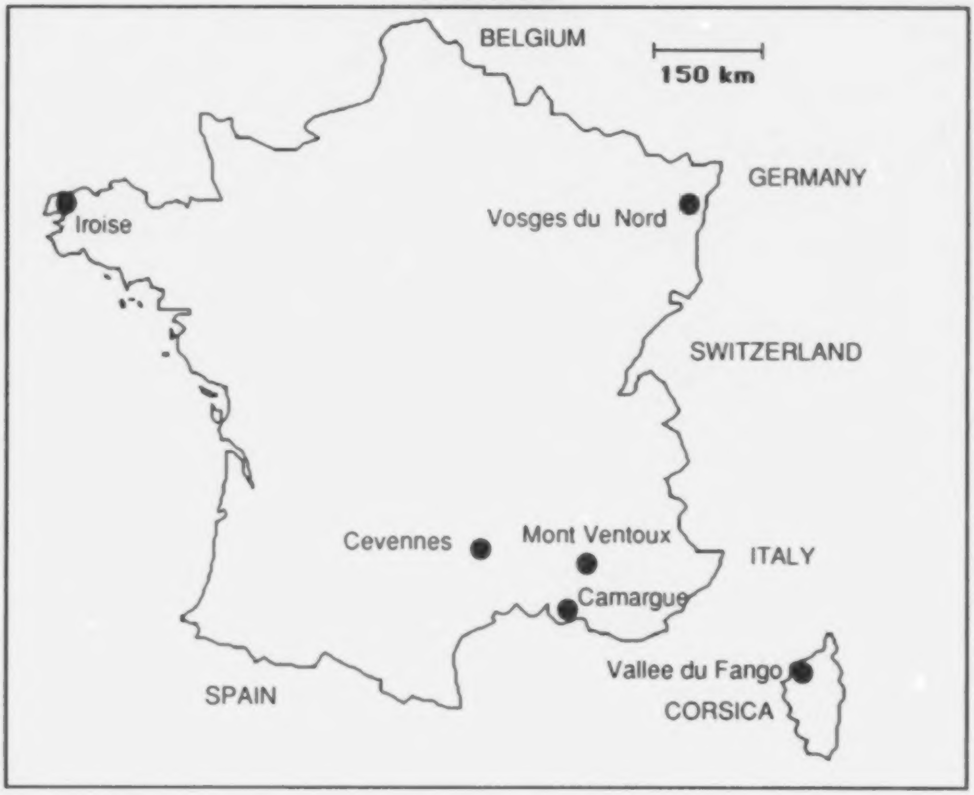
Name:
Dr. Jacques Lecomte, Chairman
Dr. Catherine Cibien, Scientific Secretary

Address:
Ministere de l'Environnement
14, Bd du General Leclerc
92524 Neuilly-sur-Seine Cedex
Paris
France

Telephone: [33] (61) + 285-338
FAX: [33] (61) + 735-477

BIOSPHERE RESERVE LOCATION MAP

FRANCE


BELGIUM
150 km
GERMANY
Iroise
Vosges du Nord
SWITZERLAND
Cevennes
Mont Ventoux
ITALY
Camargue
Vallee du Fango
SPAIN
CORSICA

Biosphere Reserve:	**Atoll de Taiaro**
Administrative Unit:	Reserve Integrale W. A. Robinson and private lands
Administering Entity:	Commission on Natural Monuments and Sites
Location:	15°44'S, 144°38'W
Area (hectares):	2,000
Elevation Range:	0 - 5m
Biome:	Mixed island systems (includes costal/marine component)
Biogeographic Province:	Southeastern Polynesian

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Conservator

Address:

Management Committee Secretariat
Commission on Monuments and Sites
BP 866
Papeete, Tahiti

Telephone:

Principal Monitoring and Research Themes:

Biological inventory of atoll and lagoon
Atoll and lagoon ecosystems

Biosphere Reserve: **Camargue**

Administrative Unit: Reserve national du Camargue

Administering Entity: Reserve national du Camargue
(national government)

Location: 43°30'N, 4°30'E

Area (hectares): 13,117

Elevation Range: 0 - 4m

Biome: Evergreen sclerophyllous woodlands
(includes costal/marine component)

Biogeographic Province: Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1992

Administrative Officer

Contact: C. Coulet

Address:
Domaine de la Capeliere
Route des Salins de Giraud
13200 Arles
France

Telephone: [33] (90) + 970-097
FAX: [33] (90) + 970-097

Principal Monitoring and Research Themes:

Wetlands
Bird populations

Biosphere Reserve: **Cevennes**

Administrative Unit: Parc national des Cevennes

Administering Entity: Parc national des Cevennes
(multiple ownerships)

Location: 49°20'N, 1°40'E

Area (hectares): 323,000

Elevation Range: Maximum 1,700m

Biome: Temperate broad-leaf forests

Biogeographic Province: Atlantic

Year Designated as Biosphere Reserve: 1984

Administrative Officer

Contact: Monsieur Benoit
Directeur du Parc national

Address: Parc national des Cevennes,
Chateau de Florac
B.P. 15
P-48400 Florac
France

Telephone: [33] (66) + 495-300
FAX: [33] (66) + 495-302

Principal Monitoring and Research Themes:

Park management research to support maintaining an equilibrium between human activities and the environment

Biosphere Reserve: **Guadeloupe Archipelago**

Administrative Unit: Guadeloupe National Park (2 units)

Administering Entity: Guadeloupe National Park administration

Location: 10 00'-27'N, 61 27'-48'W

Area (hectares): 69,000

Elevation Range: 0 - 1,467m

Biome: Mixed island systems
(includes costal/marine component)

Biogeographic Province: Lesser Antillean

Year Designated as Biosphere Reserve: 1992

Administrative Officer

Contact: Monsieur le Directeur du Parc National

Address:
Parc National de la Guadeloupe
Habitation Beausoleil - Monteran
BP 13
97120 Saint-Claude
Guadeloupe

Telephone: [590] + 802-425
FAX: [590] + 800-546

Principal Monitoring and Research Themes:

Rain forest
Coral reef

Biosphere Reserve: **Iroise**

Administrative Unit: Parc Naturel Regional d'Armorique

Administering Entity: Parc Naturel Regional d'Armorique
(management board composed of
representatives of municipalities,
departments,and professional organizations)

Location: 48°24'N, 4°58'W

Area (hectares): 21,400

Elevation Range: -20m - 60m

Biome: Temperate broad-leaf forests
(includes costal/marine component)

Biogeographic Province: Atlantic

Year Designated as Biosphere Reserve: 1988

Administrative Officer

Contact: L. M. Guillon

Address:
Parc Naturel Regional d'Armorique
Menez Meur
Hanvec
29224 Daoulas
France

Telephone: [33] (98) + 219-069
FAX: [33] (98) + 219-285

Principal Monitoring and Research Themes:

- Ornithological observations
- Intertidal biodiversity
- Botanical observations
- Integrated cartography

Biosphere Reserve:	**Mont Ventoux**
Administrative Unit:	
Administering Entity:	Syndicat mixte d'amenagement et d'equipement du Mont Ventoux
Location:	44°10'N, 5°17'E
Area (hectares):	69,956
Elevation Range:	200 - 1,909m
Biome:	Evergreen sclerophyllous woodland (ecotonal with temperate broad-leaf forest)
Biogeographic Province:	Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1990

Administrative Officer

Contact: M. le President du Syndicat mixte d'amenagement du Ventoux

Address:
Conseil General du Vaucluse
B.P. 318
84021 Avignon
France

Telephone: [33] (90) + 863-333
FAX: [33] (90) + 827-527

Principal Monitoring and Research Themes:

Hydrology

Biosphere Reserve:	**Vallee du Fango**
Administrative Unit:	Parc Naturel Regional de Corse
Administering Entity:	Parc Naturel Regional de Corse
Location:	42°23'N, 8°46'E
Area (hectares):	23,400
Elevation Range:	0 - 2,556m
Biome:	Evergreen sclerophyllous woodlands
Biogeographic Province:	Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1977

	Administrative Officer
Contact:	Leenhardt
Address:	Rue Fiorella B.P. 417 F-20184 Ajaccio Cedex France
Telephone:	[33] (95) + 507-013
FAX:	[33] (95) + 218-817

Principal Monitoring and Research Themes:

Multidisciplinary ecosystem research on the maquis
Meteorological/hydrological monitoring
Sclerophyllous forest

Biosphere Reserve:	**Vosges du Nord**
Administrative Unit:	Parc Naturel Regional des Vosges du Nord
Administering Entity:	Le Syndicat Mixte du Parc Naturel Regional des Vosges du Nord
Location:	48°45'-49°11'N, 7°17'-7°55'E
Area (hectares):	120,200
Elevation Range:	200 - 580m
Biome:	Temperate broad-leaf forests
Biogeographic Province:	Atlantic

Year Designated as Biosphere Reserve: 1988

Administrative Officer

Contact: B. Roch, Directeur

Address:

Parc Naturel Regional des Vosges du Nord
Chateau de la Petite Pierre
P-67290 La Petite Pierre
France

Telephone: [33] (88) + 704-655
FAX: [33] (88) + 704-104

Principal Monitoring and Research Themes:

Peat bog/pine forests
Biological inventories
Vegetation studies, including ecological succession and regeneration, role of fire
Aquatic ecosystems (long-term)
Agricultural/silviculture
Impact of tourism

NATIONAL CONTACT FOR BIOSPHERE RESERVES

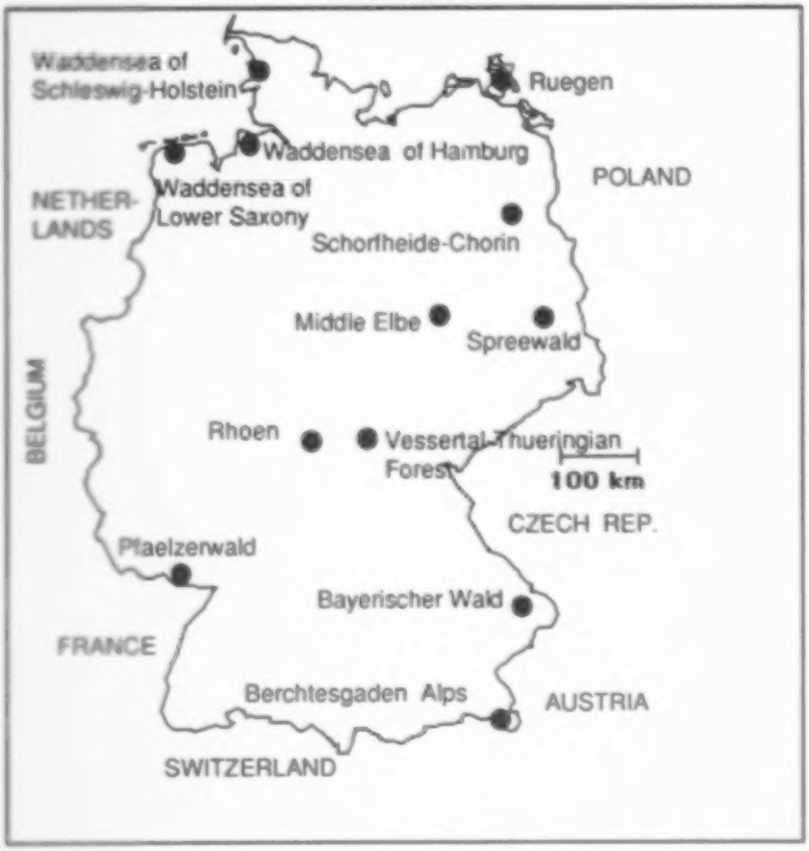
Name: Mr. Juergen Nauber
Secretary General, German MAB National Committee

Address: c/o Bundesforschungsanstalt fur Naturschutz und
Landschaftsoekologie
Konstantinstr. 110
D-53179 Bonn 2
Germany

Telephone: [49] (228) + 849-1138
FAX: [49] (228) + 849-1200

BIOSPHERE RESERVE LOCATION MAP

GERMANY


Waddensea of Schleswig-Holstein
Ruegen
Waddensea of Hamburg
POLAND
NETHER-LANDS
Waddensea of Lower Saxony
Schorfheide-Chorin
Middle Elbe
Spreewald
BELGIUM
Rhoen
Vessertal-Thueringian Forest
100 km
CZECH REP.
Pfaelzerwald
Bayerischer Wald
FRANCE
Berchtesgaden Alps
AUSTRIA
SWITZERLAND

Biosphere Reserve: **Bayerischer Wald**

Administrative Unit: Bayerischer Wald National Park

Administering Entity: Nationalparkverwaltung Bayerischer Wald

Location: 48°55'N, 13°23'E

Area (hectares): 13,300

Elevation Range: 666 - 1,453m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Central European Highlands

Year Designated as Biosphere Reserve: 1981

Administrative Officer

Contact: Hans Bibelriether

Address:
Bayerischer Wald National Park
Freyunger Str. 2
D-94487 Grafenau
Germany

Telephone: [49] (8552) + 96000
FAX: [49] (8552) + 1394

Principal Monitoring and Research Themes:

- Climatology
- Soil studies
- Landscape analysis
- Effects of regional tourism
- Hydrological modelling, pollutant input
- Ecological succession in areas of windthrow
- Effects of air pollutants in small watersheds
- Integrated environmental and ecological monitoring
- Avian and ungulate population dynamics

Biosphere Reserve:	**Berchtesgaden Alps**
Administrative Units:	Berchtesgaden National Park
Administering Entity:	National Park Administration Berchtesgaden
Location:	13°00'E, 47°36'N
Area (hectares):	16,800
Elevation Range:	471 - 2,713m
Biome:	Mixed mountain systems with complex zonation
Biogeographic Province:	Central European Highlands
Year Designated as Biosphere Reserve:	1990
	Administrative Officer
Contact:	Hubert Zierl
Address:	Doktorberg 6 D-83471 Berchtesgaden Germany
Telephone:	[49] (8652) + 61068
FAX:	[49] (8652) + 64854

Principal Monitoring and Research Themes:

Integrated ecosystem monitoring (biotic, abiotic, human systems)

Biosphere Reserve: **Middle Elbe River**

Administrative Units: Multiple units (Steckby-Loedderitz National Nature Reserve, Dessau-Woerlitzer Cultural Landscape)

Administering Entity: Verwaltung

Location: 51°52'N, 12°12'E

Area (hectares): 43,000

Elevation Range: 50 - 75m

Biome: Temperate broad-leaf forest

Biogeographic Province: Middle European Forest

Year Designated as Biosphere Reserve: 1979

Administrative Officer

Contact: Peter Hentschel

Address:
Verwaltung
Biosphaerenreservat Mittlere Elbe
Kapenmuehle, PSF 118
D-06813 Dessau
Germany

Telephone: [49] (340) + 214-503
FAX: [49] (340) + 214-503

Principal Monitoring and Research Themes:

Inventory of fauna (emphasis on avifauna and beavers)
Pest control research
Structure and dynamics of forest ecosystems
Soil and vegetation mapping

Biosphere Reserve:	**Pfaelzerwald**
Administrative Units:	Pfaelzerwald Nature Park
Administering Entity:	Verein Naturpark Pfaelzerwald e.v./ Bad Duerkheim
Location:	
Area (hectares):	179,800
Elevation Range:	
Biome:	Temperate broad-leaf forest
Biogeographic Province:	Middle European Forest

Year Designated as Biosphere Reserve: 1992

	Administrative Officer
Contact:	Werner Dexheimer
Address:	Hermann Schaefer Strasse 17 D-67098 Bad Duerkheim Germany
Telephone:	[49] (6322) + 66265
FAX:	[49] (6322) + 1214

Principal Monitoring and Research Themes:

Biosphere Reserve:	**Rhoen**
Administrative Unit:	Multiple units (3)
Administering Entity:	Rhoen Biosphere Reserve Department - Managed through a state treaty between Bavaria, Hessen, and Thuringia
Location:	10°05'E, 50°35'N
Area (hectares):	130,488
Elevation Range:	300 - 950m
Biome:	Temperate broad-leaf forests (includes costal/marine component)
Biogeographic Province:	Middle European Forest

Year Designated as Biosphere Reserve: 1991

	Thuringia	**Bavaria**	**Hessen**
Contact:	Karl Friedrich Abe	Doris Pokorny	Ewald Sauer
Address:	Mittelsdorferstrasse D-98634 Kaltensundheim Germany	Rhoenbergstr. 16 D-97656 Oberelsbach Germany	Georg-Meilinger-Str. D36115 Ehrenberg Germany
Telephone:	[49] (36946) + 753	[49] (9774) + 1741	[49] (6683) + 302
FAX:	[49] (36946) + 753	[49] (9774) + 1742	[49] (6683) + 506

Principal Monitoring and Research Themes:

Biosphere Reserve: **Ruegen**

Administrative Unit: Multiple ownerships

Administering Entity: Ruegen Biosphere Reserve

Location: 54°20'N, 13°39'E

Area (hectares): 22,800

Elevation Range: -30 - 106m

Biome: Temperate broad-leaf forest

Biogeographic Province: Middle European Forest

Year Designated as a Biosphere Reserve: 1991

Administrative Officer

Contact:

Address:
Biosphaerenreservat Suedost-Ruegen
Nr. 1 a
D-18586 Middelhagen
Germany

Telephone: [49] (38303) + 25068
FAX: [49] (38303) + 25068

Principal Monitoring and Research Themes:

Biosphere Reserve: **Schorfheide-Chorin**

Administrative Unit:

Administering Entity: Schorfheide-Chorin Biosphere Reserve

Location: 13°40'E, 53°00'N

Area (hectares): 125,891

Elevation Range: 2 - 138m

Biome: Temperate broad-leaf forest

Biogeographic Province: Middle European Forest

Year Designated as Biosphere Reserve: 1990

Administrative Officer

Contact: Eberhard Henne

Address:
Verwaltung
Biosphaerenreservat Schorfheide-Chorin
Haus am Stadtsee
D-16225 Eberswalde-Finow
Germany

Telephone: [49] (3334) + 22375
FAX: [49] (3334) + 22376

Principal Monitoring and Research Themes:

Air pollutants
Anthropogenic impacts
Complex analysis of ecosystems
Selection of indicators of ecosystem change
Scientific data to support ecosystem management
Landscape models and standards for nature protection

Biosphere Reserve: **Spreewald**

Administrative Unit: Multiple units (2)

Administering Entity: Verwaltung Spreewald

Location: 51°88'N, 13°81'E

Area (hectares): 48,460

Elevation Range: 44 - 144m

Biome: Temperate broad-leaf forests

Biogeographic Province: Middle European Forest

Year Designated as Biosphere Reserve: 1991

Administrative Officer

Contact: Manfred Werban

Address:
Schulstrasse 9
D-03222 Luebbenau/Spreewald
Germany

Telephone: [49] (3542) + 3748
FAX: [49] (3542) + 3748

Principal Monitoring and Research Themes:

Evaluation of habitats
Environmental monitoring
Water quality monitoring
Bioindicators in aquatic ecosystems
Inventory/monitoring of bats, birds, and small mammals

Biosphere Reserve: **Vessertal-Thuringian Forest**

Administrative Unit: Multiple units (Vessertal Nature Reserve and multiple ownerships in Thuringian Forest)

Administering Entity: Thuringian Environment Ministry

Location: 50°36'N, 10°48'E

Area (hectares): 17,000

Elevation Range: 420 - 982m

Biome: Temperate broad-leaf forest

Biogeographic Province: Middle European Forest

Year Designated as a Biosphere Reserve: 1979

Administrative Officer

Contact: Harald Lange

Address:
Verwaltung des Biosphaerenreservates
Vessertal-Thueringer Wald
An der Wilke 4
D-98553 Breitenbach/b.
Schleusingen
Germany

Telephone: [49] (36841) + 8187
FAX: [49] (36841) + 8187

Principal Monitoring and Research Themes:

Inventory, flora
Recreation and tourism
Forest ecosystems
Study of succession processes
Inventory, fauna; especially invertebrates
Management research on conservation of biological diversity

Biosphere Reserve:	**Waddensea of Hamburg**
Administrative Unit:	Waddensea National Park of Hamburg
Administering Entity:	Environment Ministry
Location:	53°50'49"N - 53°58'48"N, 8°17'30"E - 8°34'39"E
Area (hectares):	11,700
Elevation Range:	-17.5 - 7m
Biome:	Temperate needle-leaf forests (includes costal/marine component)
Biogeographic Province:	Atlantic
Year Designated as Biosphere Reserve:	1992
	Administrative Officer
Contact:	Klaus Janke
Address:	Umweltbehoerde-Naturschutzamt Steindamm 22 D-20099 Hamburg Germany
Telephone:	[49] (40) + 2486-3945
FAX:	[49] (40) + 2486-2579

Principal Monitoring and Research Themes:

Biosphere Reserve:	**Waddensea of Lower Saxony**
Administrative Units:	Waddensea National Park of Lower Saxony
Administering Entity:	National Park Administration, Wilhelmshaven
Location:	53°37'N - 53°55'N, 6°35'E - 8°39'E
Area (hectares):	240,000
Elevation Range:	-10 - 24.5m`
Biome:	Temperate broad-leaf forest (includes costal/marine component)
Biogeographic Province:	Atlantic

Year Designated as Biosphere Reserve: 1992

	Administrative Officer
Contact:	Claus D. Helbing
Address:	Virchowstrasse 1 D-26382 Wilhelmshaven Germany
Telephone:	[49] (4421) + 408-270
FAX:	[49] (4421) + 408-280

Principal Monitoring and Research Themes:

Avian studies

Biosphere Reserve: **Waddensea of Schleswig-Holstein**

Administrative Unit: National Park Schleswig-Holstein Waddensea

Administering Entity: Regional Office of the National Park Schleswig-Holstein Waddensea

Location: 53°52'-55°04'N, 08°13'-09°00'E

Area (hectares): 285,000

Elevation Range: -30 - 112m

Biome: Temperate broad-leaf forests (includes costal/marine component)

Biogeographic Province: Atlantic

Year Designated as Biosphere Reserve: 1990

Administrative Officer

Contact: Friedrich Heddies Andresen

Address:
Nationalparkamt
Schlossgarten 1
D-25832 Toenning
Germany

Telephone: [49] (4861) + 61691
FAX: [49] (4861) + 459

Principal Monitoring and Research Themes:

Waddensea ecosystem and human activities
Protection of marine and semi-terrestrial habitats
Changes in abiotic, biotic and socio-ecological parameters

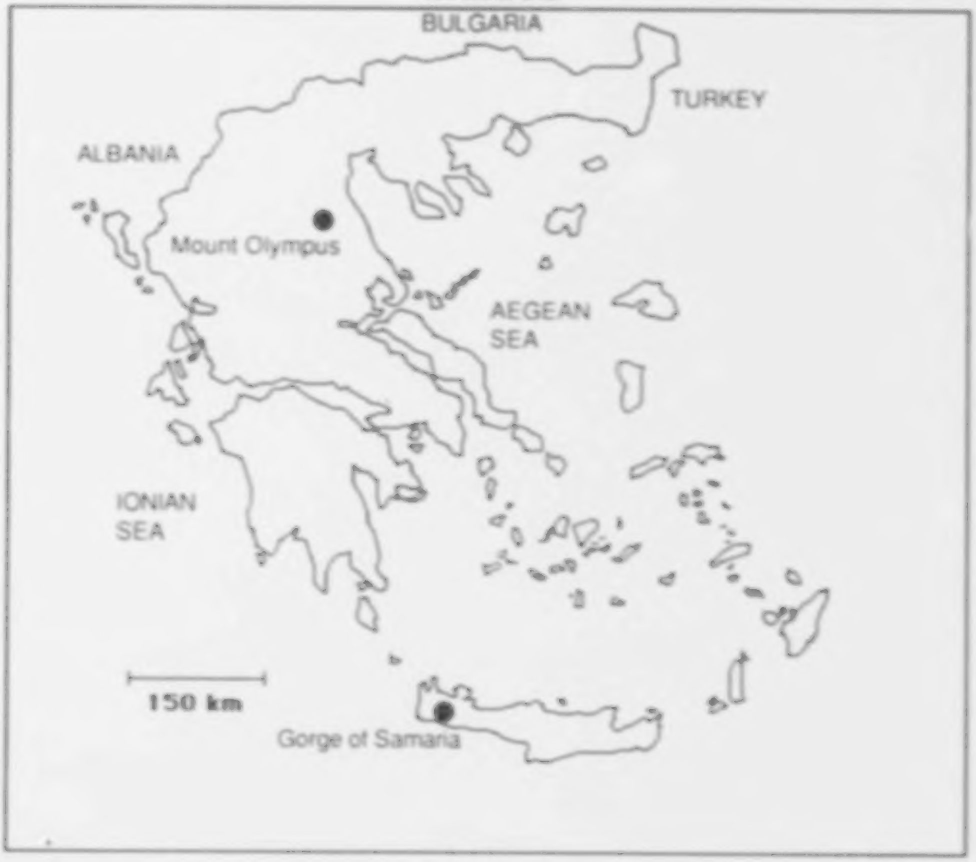
NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name: Mr. Konstantinos Tsamados
President, Greek National Commission for UNESCO

Address: 3, Akadimias Street
106 71 Athens
Greece

Telephone: [30] (1) + 362-0736
FAX: [30] (1) + 360-9716

BIOSPHERE RESERVE LOCATION MAP
GREECE


BULGARIA
TURKEY
ALBANIA
Mount Olympus
AEGEAN SEA
IONIAN SEA
150 km
Gorge of Samaria

Biosphere Reserve:	**Gorge of Samaria**
Administrative Unit:	Gorge of Samaria National Park
Administering Entity:	Forest Directorate of Chania
Location:	35°13'-35°18'N, 23°54'-23°58'E
Area (hectares):	4,840
Elevation Range:	0 - 2,116m
Biome:	Evergreen sclerophyllous woodlands (includes costal/marine component)
Biogeographical Province:	Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1981

Administrative Officer

Contact: John Fotakis

Address:

Chrisopigi
73100 Chania
Greece

Telephone: [30] (821) + 22287
FAX: [30] (821) + 2195

Principal Monitoring and Research Themes:

Plant and animal populations, including wild goats

Biosphere Reserve:	**Mount Olympus**
Administrative Unit:	Mount Olympus National Park
Administering Entity:	Forest Directorate of Picria
Location:	40°02'-40°07'N, 22°18'-22°26'E
Area (hectares):	4,000
Elevation Range:	400 - 2,914m
Biome:	Evergreen sclerophyllous woodlands
Biogeographical Province:	Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1981

	Administrative Officer
Contact:	Pavlos Andredakis
Address:	Terma Ipiron 60100 Katerini Greece
Telephone:	[30] (351) + 23720
FAX:	[30] (351) + 32111

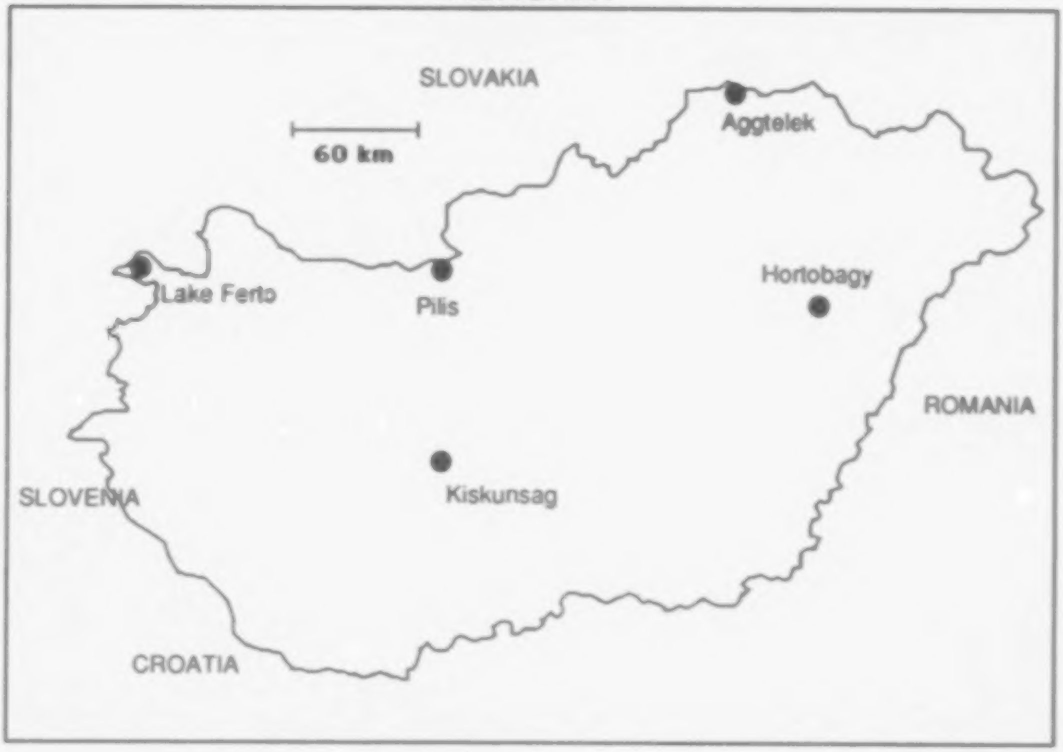
Principal Monitoring and Research Themes:

NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name:	Dr. Arpad Berczik Secretary, Hungarian MAB National Committee
Address:	Puskin u. 3 H-1088 Budapest Hungary
Telephone:	[36] (11) + 189 833, [36] (11) + 189 203
FAX:	[36] (11) + 128-483

BIOSPHERE RESERVE LOCATION MAP

HUNGARY


SLOVAKIA
60 km
Aggtelek
Lake Ferto
Pilis
Hortobagy
ROMANIA
Kiskunsag
SLOVENIA
CROATIA

Biosphere Reserve:	**Aggtelek**
Administrative Unit:	Aggtelek National Park
Administering Entity:	Aggteleki Nemzeti Park Igazgatosaga
Location:	48°30'N, 20°36'E
Area (hectares):	19,247
Elevation Range:	150 - 600m
Biome:	Temperate broad-leaf forests
Biogeographical Province:	Middle European Forest

Year Designated as Biosphere Reserve: 1979

	Administrative Officer
Contact:	
Address:	Aggteleki Nemzeti Park Igazgatosaga Aggtelek 3759 Hungary
Telephone:	[36] (46) +

Principal Monitoring and Research Themes:

Faunal studies
Geology
Hydrogeography (karst)

Biosphere Reserve:	**Hortobagy**
Administrative Unit:	Hortobagy National Park
Administering Entity:	National Authority for Environment Protection and Nature Conservation
Location:	47°25'-47°15'N, 20°54'-21°21'E
Area (hectares):	52,000
Elevation Range:	86 - 98m
Biome:	Temperate broad-leaf forests
Biogeographical Province:	Pannonian

Year Designated as Biosphere Reserve: 1979

	Administrative Officer
Contact:	
Address:	Management of Hortobagy National Park Boszormenyu ut 138 Debrecen Hungary
Telephone:	[36] (52)

Principal Monitoring and Research Themes:

Synecology of flora, fauna, and soils
Ecology of pools, artificial water bodies, alkali lowlands, salt steppes
Ecology of breeding and migratory birds

Biosphere Reserve: **Kiskunsag**

Administrative Unit: Kiskunsag National Park

Administering Entity: National Authority for Environment Protection and Nature Conservation

Location: 47°12'-46°36'N, 19°04'-19°39'E

Area (hectares): 22,095

Elevation Range: 94 - 127m

Biome: Temperate broad-leaf forests

Biogeographical Province: Pannonian

Year Designated as Biosphere Reserve: 1979

Administrative Officer

Contact:

Address:
Management of Kiskunsag National Park
Liszt Ferenc u 19
6001 Kecskemet
Hungary

Telephone: [36] (76) +

Principal Monitoring and Research Themes:

Air quality and climatology
Nesting and migratory birds

Biosphere Reserve: **Lake Ferto**

Administrative Unit: Nature Park Lake Ferto

Administering Entity: OKTH Sopron Nature Conservancy Inspectorate

Location: 47°0'N, 16°43'E

Area (hectares): 12,542

Elevation Range: 114 - 261m

Biome: Temperate broad-leaf forests

Biogeographical Province: Pannonian

Year Designated as Biosphere Reserve: 1979

Administrative Officer

Contact:

Address:
OKTH Sopron Nature Conservancy Inspectorate
Kofarago ter 9
9400 Sopron
Hungary

Telephone: [36] (99) +

Principal Monitoring and Research Themes:

Lake conditions/human effects monitoring (with Austria)
Climate and hydrological monitoring
Water conservation research
Management research on flora and fauna
Tourism

Biosphere Reserve: **Pilis**

Administrative Unit: Pilis Landscape Protection Area

Administering Entity: Directorate of State Parkforest Pilis

Location: 47°45'N, 18°49'E

Area (hectares): 23,000

Elevation Range: 106 - 757m

Biome: Temperate broad-leaf forests

Biogeographical Province: Middle European Forest

Year Designated as Biosphere Reserve: 1980

Administrative Officer

Contact:

Address:
Directorate of State Parkforest
Pilis
Matyas Kiraly ut 4
H-2025 Visegrad
Hungary

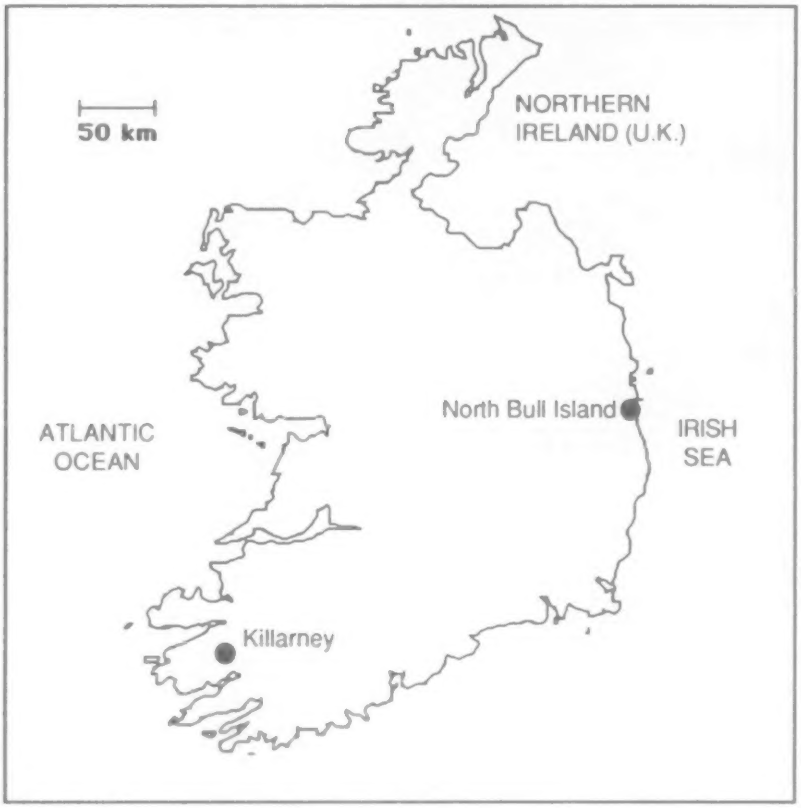
Principal Monitoring and Research Themes:

Meteorological monitoring
Impact of tourism/land uses on forests, aquatic resources, and soils
Environmental education

No Named National Contact for Biosphere Reserves

See Individual Biosphere Reserve Managers

BIOSPHERE RESERVE LOCATION MAP
IRELAND


50 km
NORTHERN IRELAND (U.K.)
ATLANTIC OCEAN
North Bull Island
IRISH SEA
Killarney

Biosphere Reserve: **Killarney**

Administrative Unit: Killarney National Park

Administering Entity: National Park and Wildlife Service, Office of Public Works, St. Stephens Green

Location: 52°01'N, 9°35'W

Area (hectares): 8,308

Elevation Range: 22 - 842m

Biome: Temperate broad-leaf forests

Biogeographical Province: British Islands

Year Designated as Biosphere Reserve: 1982

Administrative Officer

Contact: Park Superintendent

Address:
Killarney National Park
Muckross, Killarney
County Kerry

Telephone: [353] (64) + 31947
FAX: [353] (64) + 33926

Principal Monitoring and Research Themes:

- Limnology
- Water Pollutants
- Wildlife Population Dynamics
- Comparative Ecological Research
- Fire History and Effects

Biosphere Reserve: **North Bull Island**

Administrative Unit: North Bull Island Nature Reserve

Administering Entity: Dublin Corporation

Location: 53°17'N, 06°05'W

Area (hectares): 500

Elevation Range: 0 - 10m

Biome: Temperate broad-leaf forests
(includes costal/marine component)

Biogeographical Province: British Islands

Year Designated as Biosphere Reserve: 1981

Administrative Officer

Contact: G. Barry

Address:
Dublin Corporation
City Hall
Dublin 2
Ireland

Telephone: [353] (1) + 338-341, [353] (1) + 331-941
FAX: [353] (1) + 333-926

Principal Monitoring and Research Themes:

NATIONAL CONTACT FOR BIOSPHERE RESERVES

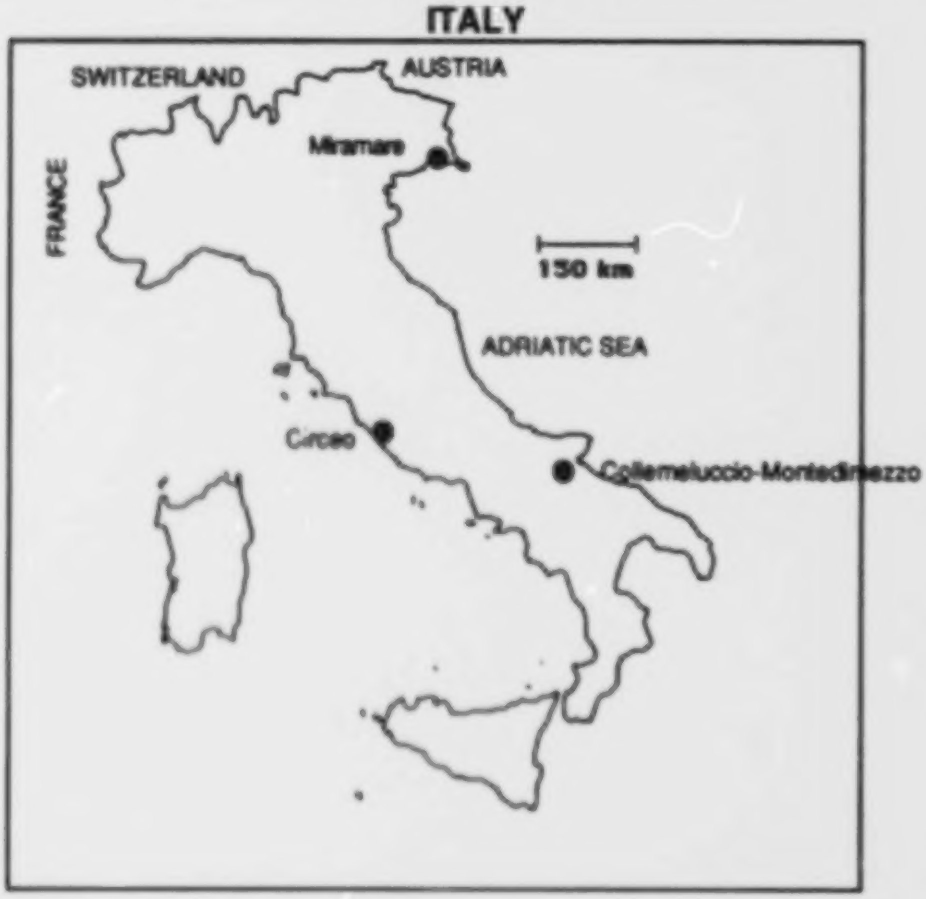
Name: Dr. Enrico Ortese

Address:
EuroMAB Italy
Parco Nazionale Circeo
Via Carlo Alberto 107
04016 Sabaudia (LT)
Italy

Telephones: [39] (77) + 357-251, [39] (77) + 357-252
FAX: [39] (77) + 510-503

BIOSPHERE RESERVE LOCATION MAP

ITALY


SWITZERLAND
AUSTRIA
FRANCE
Miramare
150 km
ADRIATIC SEA
Circeo
Collemeluccio-Montedimezzo

Biosphere Reserve:	**Circeo**
Administrative Unit:	Foresta Demaniale del Circeo (includes 4 nature reserves)
Administering Entity:	Ministero Agricoltura e Foreste, Gestione ex A.S.F.D. Uff. Amm.ne Sabaudia
Location:	41°20'N, 13°35'E
Area (hectares):	3,260
Elevation Range:	0 - 54m
Biome:	Evergreen sclerophyllous woodlands
Biogeographical Province:	Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1977

	Administrative Officer
Contact:	Enrico Ortese
Address:	Riserva MAB Foresta Demaniale del Circeo c/o Parco Nazionale del Circeo Via Carlo Alberto, 107 Sabaudia, LT Italy
Telephone:	[39] (773) + 57251, [39] (773) + 57252
FAX:	[39] (773) + 510-503

Principal Monitoring and Research Themes:

Biosphere Reserve:	**Collemeluccio-Montedimezzo**
Administrative Units:	Collemeluccio and Montedimezzo Nature Reserves
Administering Entity:	Ministero Agricoltura e Foreste
Location:	41°44'N, 14°15'E (Collemeluccio), 41°35'N, 14°15'E (Montedimezzo)
Area (hectares):	478
Elevation Range:	834 - 1,284m
Biome:	Mixed mountain systems with complex zonation
Biogeographical Province:	Central European Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Luigi Pagano

Address:
Riserva MAB Collemeluccio-Montedimezzo
Ufficio Amministracione Foreste Demaniaci
Comando Stazione Montedimezzo
S. Pietro Avellana
86088 Isernia
Italy

Telephone: [39] (865) + 3935
FAX: [39] (865) + 413-491

Principal Monitoring and Research Themes:

Biosphere Reserve: Miramare

Administrative Unit: Miramare Marine Park

Administering Entity: World Wildlife Fund - Italia

Location: 45°42'N, 13°42'E

Area (hectares): 60

Elevation Range: -18 - 40m

Biome: Evergreen sclerophyllous forests
(includes costal/marine component)

Biogeographical Province: Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Graziado Benedetti

Address:
Riserva Marina di Miramare
Viale Miramare 349
36016 Trieste
Italy

Telephone: [39] (40) + 224-147
FAX: [39] (40) + 224-147

Principal Monitoring and Research Themes:

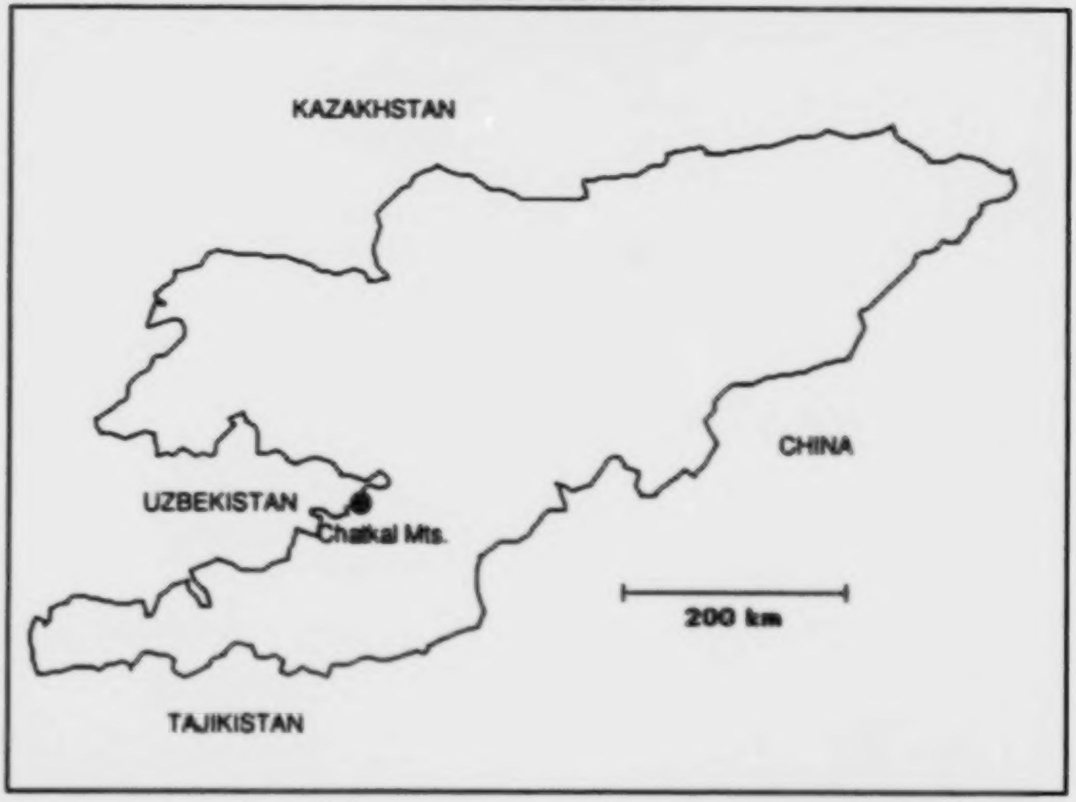
Sea water chemistry
Plankton studies
Experimental fish breeding

No Named National Contact for Biosphere Reserves

See Biosphere Reserve Manager

BIOSPHERE RESERVE LOCATION MAP

KYRGYZSTAN


KAZAKHSTAN
UZBEKISTAN
Chatkal Mts.
CHINA
200 km
TAJIKISTAN

Biosphere Reserve: **Chatkal Mountains**
(see also Uzbekistan)

Administrative Units: Sary Chelekskiy Zapovednik

Administering Entities: State government

Location: 41°47'N, 71°54'E

Area (hectares): 23,900

Elevation Range: 1,200 - 4,300m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Pamir-Tian-Shan Highlands

Year Designated as Biosphere Reserve: 1978

Site Manager

Contact:

Address:

Sary-Chelek Zapovednik
P/O Arkit
Dzhangi-dzhol' District
Osh Region
Kyrgyzstan 716705

Principal Monitoring and Research Themes:

Floristic and faunal inventory
Multimedia pollutant monoitoring
Reforestation research
Ecology of woody plants/commercial species
Ecology of birds and mammals

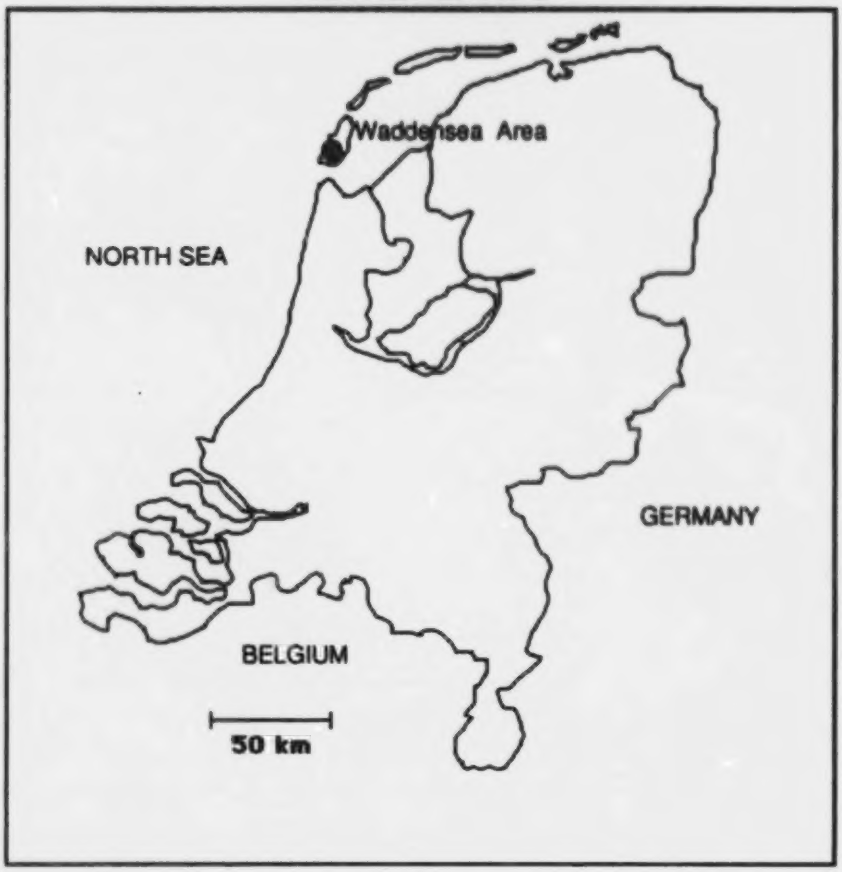
NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name: Dr. H.M. van Emden

Address:
Royal Netherlands Academy of Sciences
The Netherlands MAB/SCOPE/LGBP Committee
Postbox 19121
1000 gc Amsterdam
The Netherlands

Telephone: [31] (20) + 551-0727
FAX: [31] (20) + 620-4941
E-Mail: memocom: NLX 1238

BIOSPHERE RESERVE LOCATION MAP NETHERLANDS


Waddensea Area
NORTH SEA
GERMANY
BELGIUM
50 km

Biosphere Reserve: **Waddensea Area**

Administrative Unit: Multiple units under governmental and private ownership.

Administering Entity: Institute for Forestry and Nature Research, c/o The Netherlands MAB Committee

Location: 52°52'-53°33'N, 04°45'-07°13'E

Area (hectares): 260,000

Elevation Range: 0 - 7m

Biome: Temperate broad-leaf forests (includes costal/marine component)

Biogeographical Province: Atlantic

Year Designated as Biosphere Reserve: 1986

__Administrative Officer__

Contact:

Address:
Institute for Forestry and
Nature Research,
c/o The Netherlands MAB Committee
P.O. Box 167
1790 AD Den Burg
Texel
Netherlands

Telephone: [31] (2220) + 69700
FAX: [31] (2220) + 19235

Principal Monitoring and Research Themes:

Coastal wetlands and dune systems

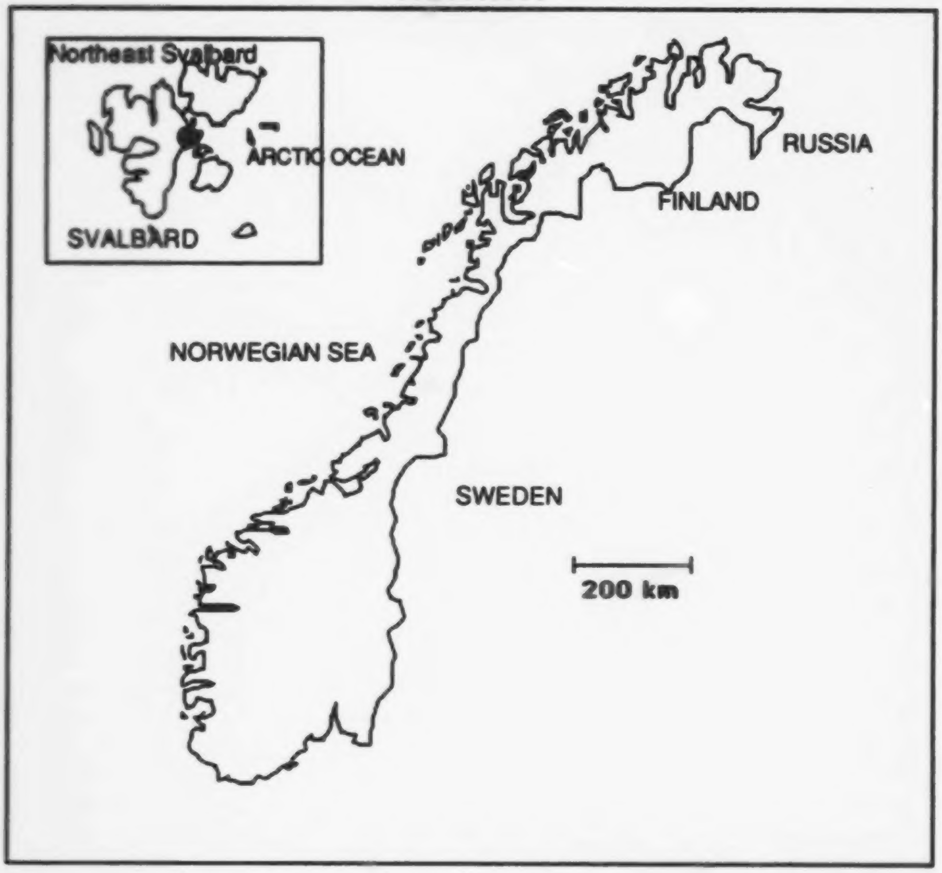
NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name: Ragnhild Sandoy, MAB National Coordinator

Address:
University of Tromso
N-9037 Tromso
Norway

Telephone: [47] (83) + 45528
FAX: [47] (83) + 76672

BIOSPHERE RESERVE LOCATION MAP
NORWAY


Northeast Svalbard
ARCTIC OCEAN
SVALBARD
RUSSIA
FINLAND
NORWEGIAN SEA
SWEDEN
200 km

Biosphere Reserve: **Northeast Svalbard**

Administrative Unit: Northeast Svalbard Nature Reserve

Administering Entity: Ministry of the Environment

Location: 78°40'-80°50'N, 16°35'E

Area (hectares): 1,555,000

Elevation Range: 0 - 835m

Biome: Tundra
(includes coastal/marine component)

Biogeographical Province: Arctic Desert

Year Designated as Biosphere Reserve: 1976

Administrative Officer

Contact: Paal Prestrud

Address:
Section for Polar Affairs
Department of International Environmental Cooperation
Ministry of the Environment
Post Box 8013 - DEP
0030 Oslo.
Norway

Telephone: [47] (22) + 345996

Principal Monitoring and Research Themes:

Air transported pollution
Climate change
Radioactive emissions monitoring

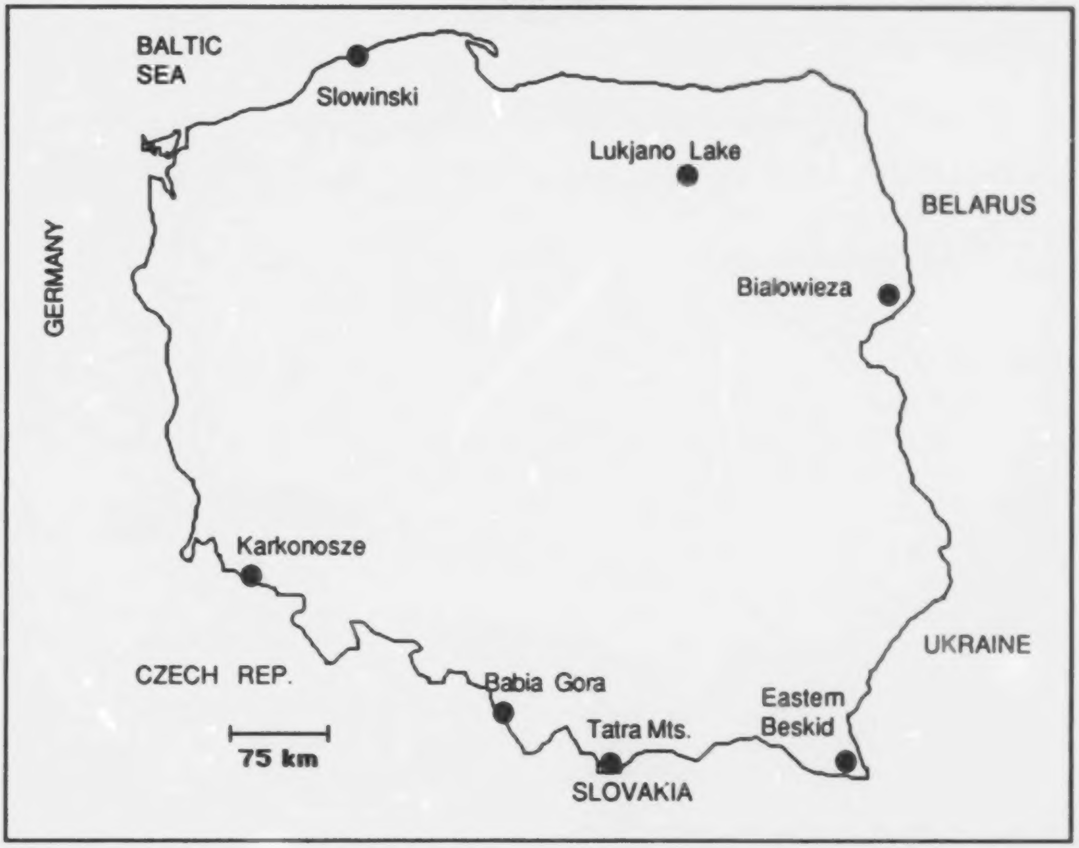
NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name: Prof. Dr. Alicja Breymeyer

Address:
Man and Environment Committee
Polish Academy of Science
Palace of Culture and Science
00-901 Warsaw
Poland

FAX: [48] (2) + 226-7267
TELEX: IGPAN 817835

BIOSPHERE RESERVE LOCATION MAP
POLAND


BALTIC SEA
Slowinski
Lukjano Lake
BELARUS
Bialowieza
GERMANY
Karkonosze
UKRAINE
CZECH REP.
Babia Gora
Eastern Beskid
Tatra Mts.
75 km
SLOVAKIA

Biosphere Reserve: **Babia Gora**

Administrative Unit: Babia Gora National Park

Administering Entity: Ministry of Environmental Protection, Natural Resources and Forestry

Location: 49°34'N, 19°32'E

Area (hectares): 1,741

Elevation Range: 850 - 1,725m

Biome: Temperate broad-leaf forests

Biogeographical Province: Middle European Forest

Year Designated as Biosphere Reserve: 1976

Administrative Officer

Contact: Jecek Wizimirski

Address:
Babia Gora National Park
Siedziba Dyrekeji i muzeum
34-223 Zawoja
Poland

Telephone: [48] + Zawoja 110

Principal Monitoring and Research Themes:

Multidisciplinary ecological monitoring in complex mountain ecosystems
Effects of pollutants
Tourism and carrying capacity studies

Biosphere Reserve: **Bialowieza**

Administrative Unit: Bialowieza National Park

Administering Entity: Ministry of Environmental Protection,
Natural Resources, and Forestry

Location: 52°42'36" - 52 48'06" N,
23°48'15" - 23 55'41" E

Area (hectares): 5,348

Elevation Range: 147 - 172m

Biome: Temperate broad-leaf forests

Biogeographical Province: Boreonemoral

Year Designated as Biosphere Reserve: 1976

Administrative Officer

Contact: Czeslaw Okolow, Acting Director

Address: Bialowieza National Park
17-230 Bialowieza
Poland

Telephone: [48] + 12306, [48] + 12360
FAX: [48] + 12323
Telex 28-26-36 BPN pl

Principal Monitoring and Research Themes:

Climate
Air pollution
Plant demography
Breeding bird census on permanent study plots
Ecology and dynamics of parasites in natural and modified ecosystems
Forest management research/silviculture
Groundwaters and surface water levels
Physiology and ecology of bison
Phenology of plants and animals
Structure/function of lowland forest including: succession, energy flow, effects of human modifications
Entomology/biological control of pest insect

Biosphere Reserve: **Eastern Beskid**
(see also East Carpathians, Slovakia)

Administrative Unit: Bieszczady National Park, Cisna-Wetlina and San Valley Landscape Parks

Administering Entity: Ministry of Environmental Protection, Natural Resources and Forestry

Location: 49°00'-22'N, 22°06'-53'E

Area (hectares): 108,924

Elevation Range: 420 - 1,346m

Biome: Temperate broad-leaf forests and woodlands, and mixed mountain systems with complex zonation

Biogeographic Province: Middle European Forest and Central European Highlands

Year Designated as Biosphere Reserve: 1992

Administrative Officer

Contact: Wojomir Wojciechowski

Address:
Bieszczcady National Park Administration
38-714 Ustrzyki Gorne
Poland

Telephone: [48] Lutowiska 50

Principal Monitoring and Research Themes:

Dynamics of forests and alpine ecosystems

Biosphere Reserve: **Karkonosze**
(see also Krkonose, Czech Republic)

Administrative Unit: Karkonosze National Park

Administering Entity: Karkonosze National Park Administration

Location: 50°44'-50'N, 15°27'-50'E

Area (hectares): 5,564

Elevation Range: 400 - 1,602m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Central European Highlands

Year Designated as Biosphere Reserve: 1992

Administrative Officer

Contact: Ryszard Mochola

Address:
Karkonoski Park Narodowy
Chalubinskiego 23
58-570 Jelenia Gora
Poland

Telephone: [48] (75) + 53726
FAX: [48] (75) + 53348

Principal Monitoring and Research Themes:

Air pollution
Forests
Climate

Biosphere Reserve: **Lukajno Lake**

Administrative Unit: Lukajno Lake Reserve

Administering Entity: Urzad Wojewodzki-Suwalki

Location: 53°49'N, 21°38'E

Area (hectares): 710

Elevation Range: 115m (mean lake level)

Biome: Temperate broad-leaf forests

Biogeographical Province: Boreonemoral

Year Designated as Biosphere Reserve: 1976

Administrative Officer

Contact:
Wodzimierz Jankowski,
Deputy Director, Environmental
Conservation Department

Address:
Urzad Wojewodzki
16-400 Suwalki
Noniewicza 10
Poland

Telephone: [48] + 62220
FAX: [48] + 2166
E-Mail: 16-400 Suwalki

Principal Monitoring and Research Themes:

Influence of agricultural runoff/non-point source pollution
Ecology/population dynamics of mute swan (Cygnus olor)

Biosphere Reserve: **Slowinski**

Administrative Unit: Slowinski National Park

Administering Entity: Slowinski National Park Management

Location: 54°39'-54°43'N, 17°03'-17°31'E

Area (hectares): 18,247

Elevation Range: 0 - 55m

Biome: Temperate broad-leaf forests

Biogeographical Province: Middle European Forest

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact:
Kazimierz Rabski,
Director

Address:
Slowinski National Park
ul.Bohaterow Warszawy 1
76-214 Smoldzino
Poland

Telephone:
[48] (59) + 116-204,
[48] (59) + 116-339,
[48] (59) + 116-368

Principal Monitoring and Research Themes:

Ecology of coastal dune ecosystems
Paleobotanical and geobotanical studies
Climate studies
Fauna studies

Biosphere Reserve:	**Tatra Mountains** (see also Tatry, Slovakia)
Administrative Unit:	Tatra National Park
Administering Entity:	Ministry of Nature Protection, Natural Resources and Forestry
Location:	49°15'N, 19°56'E
Area (hectares):	20,396
Elevation Range:	750 - 2,499m
Biome:	Temperate broad-leaf forests or woodlands
Biogeographic Province:	Middle European Forest

Year Designated as Biosphere Reserve: 1992

Administrative Officer

Contact: W. Gasienica Byrcyn

Address:

Tatrzanski Park Narodowy
Chatubinskiego 42A
34-500 Zakopane
Poland

Telephone: [48] (165) + 63203

FAX: [48] (165) + 63579

Principal Monitoring and Research Themes:

Air quality monitoring
Ecological research on flora, fauna, geology, and geomorphology

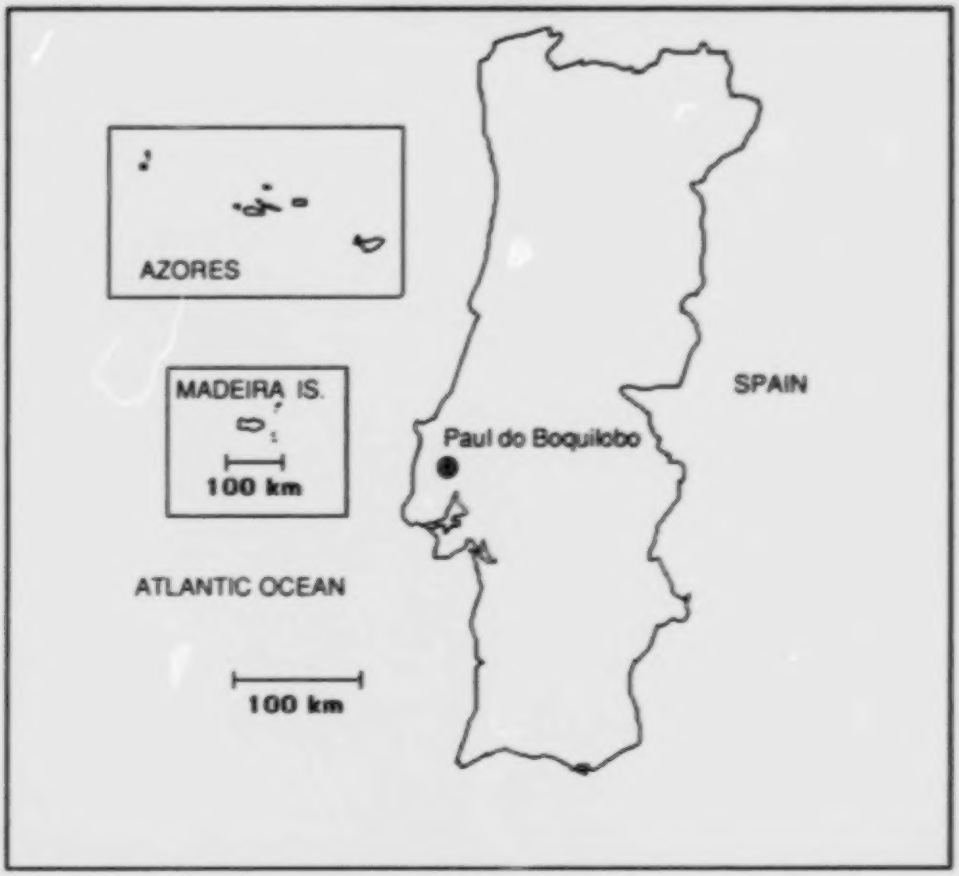
NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name: Prof. Fernando Henriques, Chairman
MAB National Committee

Address: Rua do Seculo, 51-4
1200 Lisboa
Portugal

BIOSPHERE RESERVE LOCATION MAP

PORTUGAL


AZORES
MADEIRA IS.
100 km
Paul do Boquilobo
SPAIN
ATLANTIC OCEAN
100 km

Biosphere Reserve: **Paul do Boquilobo**

Administrative Unit: Paul do Boquilobo Nature Reserve

Administering Entity: Private ownership

Location: 39°24'N, 9°28'W

Area (hectares): 395

Elevation Range: 14 - 16m

Biome: Evergreen sclerophyllous woodlands

Biogeographical Province: Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1981

Administrative Officer **Site Manager**

Contact:

Address:

Telephone: [351] +

Principal Monitoring and Research Themes:

Effects of agricultural uses
Studies of pollutants on lake/marsh system
Ecosystem restoration

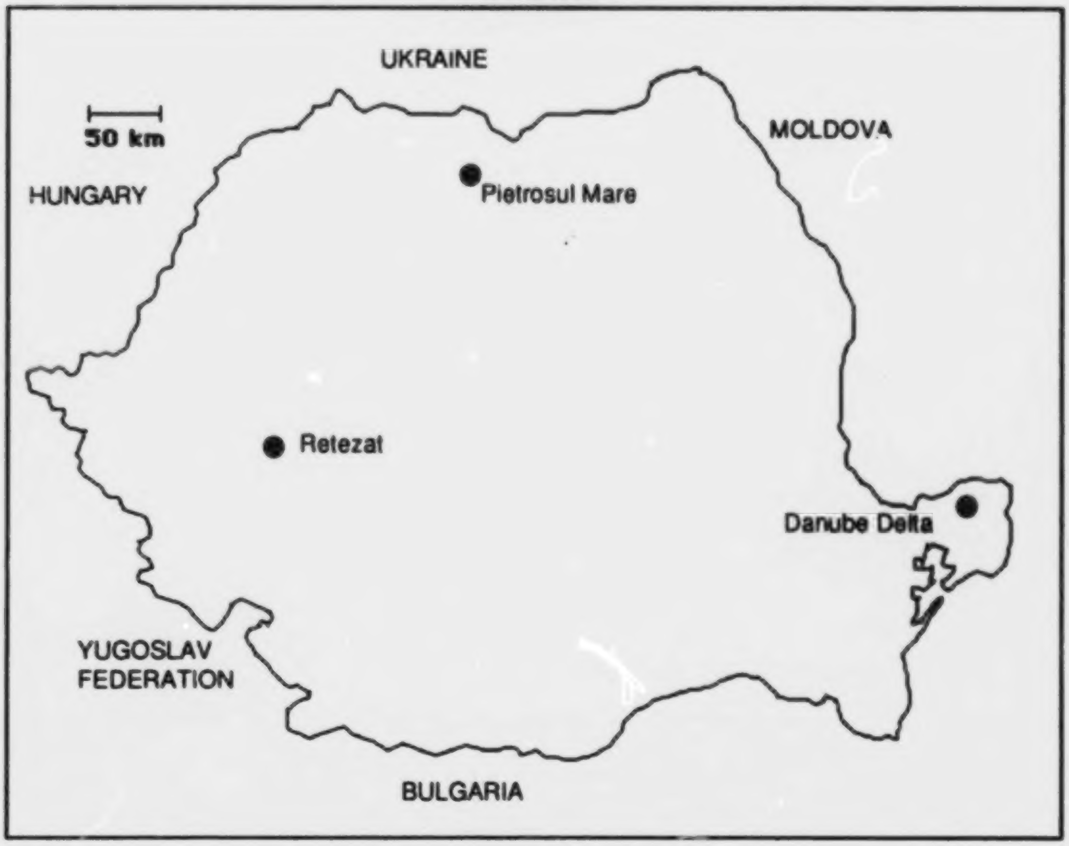
NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name: Dr. Angheluta Vadineanu

Address:
Ministry of Environment
International and Public Relations Division
12 Bd. Libertati, Tronson, 5
Bucharest
Romania

Telephone: [40] (0) + 813-488
FAX: [40] (0) + 120-403

BIOSPHERE RESERVE LOCATION MAP ROMANIA


UKRAINE
50 km
MOLDOVA
HUNGARY
Pietrosul Mare
Retezat
Danube Delta
YUGOSLAV FEDERATION
BULGARIA

Biosphere Reserve: **Danube Delta**

Administrative Unit: Multiple use area; includes former Rosca-Letea Reserve

Administering Entity: Danube Delta Biosphere Reserve

Location: 44°20'40"-45°27'N, 28°10'40"-29°42'45"E

Area (hectares): 591,200

Elevation Range: 0.2 - 47m

Biome: Temperate grasslands
(includes coastal/marine component)

Biogeographical Province: Pontian Steppe

Year Designated as Biosphere Reserve: 1992

Administrative Officer

Contact: Gomoiu Marian-Traian

Address:
Administratia Rezervatiei Biosferei Delta Dunarii
Str. Pacii, nr.20
Tulcea Ro-8800, Cas.Post.13
Romania

Telephone: [40] (915) + 15277
FAX: [40] (915) + 24547

Principal Monitoring and Research Themes:

Biosphere Reserve: **Pietrosul Mare**

Administrative Unit: Pietrosul Mare Nature Reserve

Administering Entity: Bistrita-Environmental Survey and Protection Agency

Location: 47°40'N, 25°00'E

Area (hectares): 3,068

Elevation Range: 900 - 2,303m

Biome: Temperate broad-leaf forests

Biogeographical Province: Middle European Forests

Year Designated as Biosphere Reserve: 1979

Administrative Officer

Contact: Carlarig Liviu

Address:
Bistrita
Str. Avram Iancu, nr.9
Jud. Bistrita Nasaud
Romania

Telephone: [40] (990) + 16628

Principal Monitoring and Research Themes:

- Geological studies
- Flora and fauna surveys
- Peat bog pollen analysis
- Ecology of beach forests and alpine meadows

Biosphere Reserve: **Retezat**

Administrative Unit: Retezat National Park

Administering Entity: Deva - Environmental Survey and Protection Agency

Location: 45°25'N, 22°45'E

Area (hectares): 20,000

Elevation Range: 890 - 2,509m

Biome: Temperate broad-leaf forests

Biogeographical Province: Middle European Forest

Year Designated as Biosphere Reserve: 1979

Administrative Officer

Contact: Batca Teodat

Address:
Deva
Str. Aurel Vlaicu, nr.25
Jud. Hunedoara
Romania

Telephone: [40] (956) + 15445

Principal Monitoring and Research Themes:

Palynology
Ecology of glacial lakes, forests, mountains

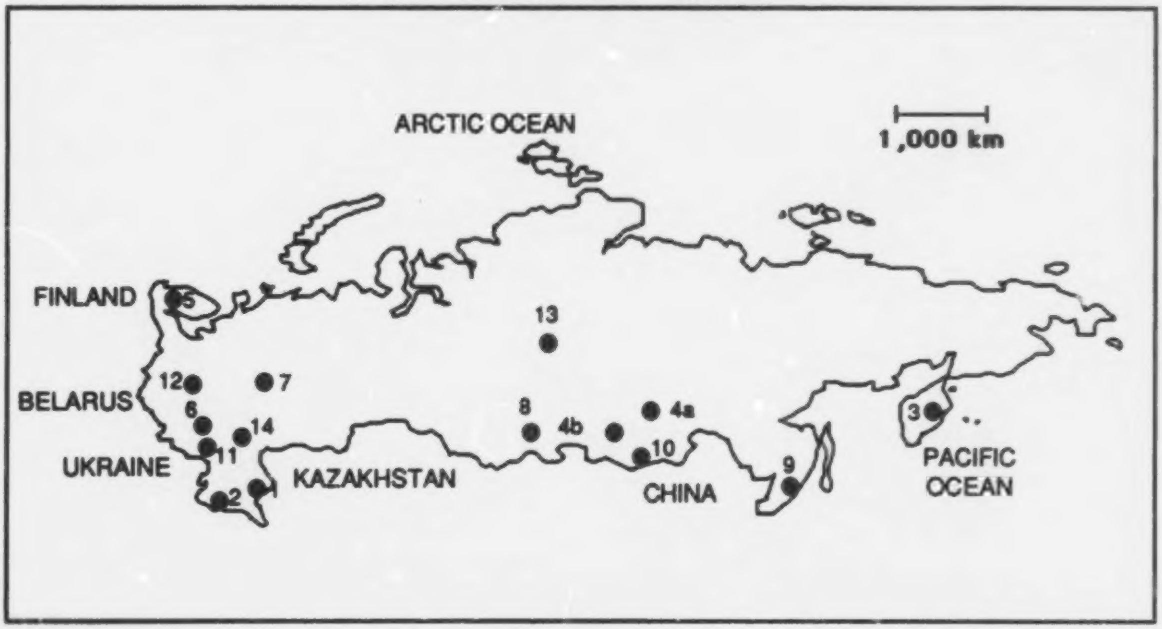
NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name: Dr. Valeri M. Neronov
Executive Director, Russian MAB National Committee

Address: Russian MAB Secretariat
13, Fersman St.,
117312 Moscow
Russian Federation

Telephone: [7] (095) + 124-6000
FAX: [7] (095) + 129-1354
TELEX: 411682 MAB SU
E - mail: MABSU@SOVAMSU.SOVSU.COM

BIOSPHERE RESERVE LOCATION MAP
RUSSIAN FEDERATION


ARCTIC OCEAN
1,000 km
FINLAND
BELARUS
UKRAINE
KAZAKHSTAN
CHINA
PACIFIC OCEAN
1
2
3
4a
4b
5
6
7
8
9
10
11
12
13
14

1. Astrakhanskiy
2. Kavkazskiy
3. Kronotskiy
4a. Lake Baikal Region - Barguzinskiy
4b. Lake Baikal Region - Baikal'skiy
5. Laplandskiy
6. Oka River Valley
7. Pechoro-Ilychskiy
8. Sayano-Shushenskiy
9. Sikhote-Alinskiy
10. Sokhondinskiy
11. Tsentral'no Chernozemny.
12. Tsentral'no Lesnoy
13. Tzentralnosibirskiy
14. Voronezhskiy

Biosphere Reserve: **Astrakhanskiy**

Administrative Unit: Astrakhanskiy Zapovednik (three sections)

Administering Entity: Government of Russian Federation

Location: 45°31'N, 47°44'E to 46°17'N, 48°57'E

Area (hectares): 63,400

Elevation Range: 28m

Biome: Cold-winter deserts and semi-deserts
(includes coastal/marine component)

Biogeographic Province: Turanian

Year Designated as Biosphere Reserve: 1984

Administrative Officer

Contact: Konechnyi A.G.
Director of Zapovednik

Address: Quay of the Tsarev River, 119
Astrakhan
414021 Russian Federation

Telephone: [7] (851) + 003-6929

Principal Monitoring and Research Themes:

Faunal inventory and monitoring
Hydrology and climatology monitoring
Effects of hydrological projects on Volga River Delta

Biosphere Reserve:	**Kavkazskiy**
Administrative Unit:	Kavkazskiy Zapovednik (two sections)
Administering Entity:	Government of Russian Federation
Location:	43°46'N, 40°21'E
Area (hectares):	266,700
Elevation Range:	0 - 3,360m
Biome:	Mixed mountain systems with complex zonation (includes coastal/marine component)
Biogeographic Province:	Caucaso-Iranian Highlands

Year Designated as Biosphere Reserve: 1978

Administrative Officer

Contact: Timuhin N.T.

Address:

Kavkazskiy Zapovednik
Krasnodarskiy Kray
Sochi A-341
Karl Marx St. 8
354341 Russian Federation

Telephone:

[7] (862) + 244-5136
[7] (862) + 244-5073

Principal Monitoring and Research Themes:

Flora and fauna inventory
Ecology of rare species
Dynamics of northwest Caucasus Mountains
Effects of fire and logging in Caucasus Mountains

Biosphere Reserve:	**Kronotskiy**
Administrative Unit:	Kronotskiy Zapovednik
Administering Entity:	Government of Russian Federation
Location:	54°09'-55°07'N, 159°38'-162°07'E
Area (hectares):	1,099,000
Elevation Range:	0 - 3,528m
Biome:	Temperate broad-leaf forests (includes coastal/marine component)
Biogeographic Province:	Kamchatkan

Year Designated as Biosphere Reserve: 1984

Administrative Officer

Contact:	Alekseev S.A. Director of Zapovednik
Address:	Kronotskiy Zapovednik Kamchatskaya Region Elisovo, Ryaleikova Str. 8 689010 Russian Federation
Telephone:	[7] (095) + Order via operator 8-813, 61663 or 62847

Principal Monitoring and Research Themes:

Biological inventories
Ecology of volcanic ranges of the Middle Kamchatkan Peninsula, with emphasis on relict fir and larch forests
Ecology of ungulates and large predators

Biosphere Reserve:	**Lake Baikal Region**
Administrative Units:	Baikal'skiy Zapovednik and Barguzinskiy Zapovednik and polygon
Administering Entity:	Government of Russian Federation
Location:	51°50'N, 105°05'E (Baikal'skiy), 54°20'N, 109°45'E (Barguzinskiy)
Area (hectares):	554,900
Elevation Range:	400 - 3,000m
Biomes:	Temperate needle-leaf forests and lake systems (includes coastal/marine component)
Biogeographic Provinces:	East Siberian Taiga, Lake Baikal

Year Designated as Biosphere Reserve: 1986

Administrative Officers

Contact:	Prokudin A.D. Director, Baikal'skiy Zapovednik	Jankus G. A. Director, Barguzinskiy Zapovednik
Address:	Kabanskiy District Buryat,Tankhoi 671120 Russian Federation	Severo-Baikalskiy District Buryat, Davshe 671715 Russian Federation

Telephone:

Principal Monitoring and Research Themes:

Climate monitoring
Vegetation, and animal populations and their harvesting
Population dynamics and management of sable
Ecosystem changes

Biosphere Reserve:	**Laplandskiy**
Administrative Unit:	Laplandskiy Zapovednik
Administering Entity:	Government of Russian Federation
Location:	67°10'-68°05'N, 31°45'-32°45'E
Area (hectares):	268,400
Elevation Range:	470 - 1,115m
Biome:	Temperate needle-leaf forests
Biogeographic Province:	West Eurasian Taiga

Year Designated as Biosphere Reserve: 1984

Administrative Officer

Contact:
Zolotuhin V.P.
Director of Zapovednik

Address:
Laplandskiy Zapovednik
Manchegorsk
Zelenyi per. 8
Murmansk Region
184280 Russian Federation

Telephone: [7] (095) + Order via operator 8-815, 22267

Principal Monitoring and Research Themes:

Ecology of the Kola Peninsula
Ecology of reindeer and fur-bearing mammals
Ecology of fish
Ecological effects of human disturbance
Ecological role of fire

Biosphere Reserve: **Oka River Valley**

Administrative Unit: Okskiy Zapovednik and polygon and Prioksko-Terrasny State Reserve

Administering Entity: Government of Russian Federation

Location: 54°43'N, 40°50'E (Okskiy),
54°53'N, 37°49'E (Prioksko-Terrasny)

Area (hectares): 60,600

Elevation Range: 80 - 200m

Biome: Temperate broad-leaf forest

Biogeographic Province: Boreonemoral

Year Designated as Biosphere Reserve: 1978

Administrative Officer

Contact:	Priklonskii S.G. Director, Okskiy Zapovednik	Litkens E.S. Director, Prioksko-Terrasny Reserve
Address:	Spasskiy District Ryazan Region Lakash 391072 Russian Federation	Serpuhovskoi District Moskovskaya Region Danki 142274 Russian Federation
Telephone:	[7] (095) Order via operator 72274	[7] (095) + 546-7363 or 296-9063

Principal Monitoring and Research Themes:

Inventory of birds
Hydrology
Ecology of selected fauna
Rare mammals population dynamics
Climate monitoring
Plant and animal populations, harvesting
Ecosystem dynamics of mixed forests

Biosphere Reserve: **Pechoro-Ilychskiy**

Administrative Unit: Pechoro-Ilychskiy Zapovednik (two sections)

Administering Entity: Government of Russian Federation

Location: 61°43'-63°15'N, 56°49'-59°38'E

Area (hectares): 721,322

Elevation Range: 150 - 1,195m

Biome: Temperate needle-leaf forests

Biogeographic Province: West Eurasian Taiga

Year Designated as Biosphere Reserve: 1984

Administrative Officer

Contact:
Megalinskii K.O.
Director of Zapovednik

Address:
Pechoro-Ilychskiy Zapovednik
Troitsko-Pechorskiy District
Komi Republic
Yaksha
169436 Russian Federation

Telephone: [7] (095) Order via operator, 8-813, 95699

Principal Monitoring and Research Themes:

Long-term ecological monitoring
Reproductive biology of domestic elk
Population studies of fish, birds, and mammals

Biosphere Reserve: **Sikhote-Alinskiy**

Administrative Unit: Sikhote-Alinskiy Zapovednik

Administering Entity: Government of Russian Federation

Location: 44°46'-45°45'N, 135°48'-136°35'E

Area (hectares): 349,900

Elevation Range: 0 - 1,600m

Biome: Temperate broad-leaf forests
(includes coastal/marine component)

Biogeographic Province: Manchurian-Japanese Mixed Forest

Year Designated as Biosphere Reserve: 1978

Administrative Officer

Contact: Astafev A.A.
Director of Zapovednik

Address: Sikhote-Alinskiy Zapovednik
Terneyskiy District
Primorskiy Kray
Terney
692150 Russian Federation

Telephone: [7] (095) Order via operator, 8-813, 91559

Principal Monitoring and Research Themes:

Flora and fauna inventories
Ecology of rare and commercially important species
Ecosystem studies: (vegetation distribution, succession, productivity)

Biosphere Reserve: **Sokhondinskiy**

Administrative Unit: Sokhondinskiy Zapovednik

Administering Entity: Government of Russian Federation

Location: 49°29'-50°0'N, 110°33'-111°22'E

Area (hectares): 211,000

Elevation Range: 700 - 2,508m

Biome: Temperate grasslands

Biogeographic Province: Mongolian-Manchurian Steppe

Year Designated as Biosphere Reserve: 1984

Administrative Officer

Contact:
Yashnov V.I.
Director of Zapovednik

Address:
Sokhondinskiy Zapovednik
Chitinskaya Region
Kyra, Gorky Str. 48
674250 Russian Federation

Telephone: [7] (095) Order via operator, 8-813, 91424

Principal Monitoring and Research Themes:

Long-term ecological monitoring
Inventory of mosses, lichens, birds and mammals

Biosphere Reserve:	**Tsentral'no Chernozemny**
Administrative Unit:	Tsentral'no-Chernozemny Zapovednik (five sections)
Administering Entity:	Government of Russian Federation
Location:	51°00'N, 36°40'E
Area (hectares):	4,795
Elevation Range:	230 - 263m
Biome:	Temperate broad-leaf forests, temperate grasslands
Biogeographic Province:	Middle European Forest/Pontian Steppe

Year Designated as Biosphere Reserve: 1978

Administrative Officer

Contact:

Maleshin N.A.
Director of Zapovednik

Address:

Tsentral'no-Chernozemny Zapovednik
Kursk
Zapovednoe
307028 Russian Federation

Telephone: [7] (095) + 807100 - 71016

Principal Monitoring and Research Themes:

Forest-steppe ecosystems: soil formation, moisture and temperature, vegetation dynamics
Long-term monitoring of birds
Ecotonal studies

Biosphere Reserve: **Tsentral'no-Lesnoy**

Administrative Unit: Tsentral'no-Lesnoy Zapovednik

Administering Entity: Government of Russian Federation

Location: 56°30'N, 32°52'E

Area (hectares): 21,348

Elevation Range: 200 - 289m

Biome: Temperate broad-leaf forests

Biogeographic Province: Boreonemoral

Year Designated as Biosphere Reserve: 1985

Administrative Officer

Contact:
Jeltuhin A.S.
Director of Zapovednik

Address:
Tsentral'no-Lesnoy Zapovednik
Nelidovskiy District
Tverskaya Region
172513 Russian Federation

Telephone: [7] (095) + 808266-22220

Principal Monitoring and Research Themes:

- Meteorological observations
- Annual censuses of animal populations
- Ecological research of primary and secondary forests
- Inventory and ecological monitoring of spruce ecosystems
- Wildlife population dynamics
- Human modification of adjacent landscapes

Biosphere Reserve: **Tzentral'nosibirskiy**

Administrative Unit: Tzentralnosibirskiy Zapovednik and polygon

Administering Entity: Government of Russian Federation

Location: 60°55'-63°15'N, 84°15'-92°30'E

Area (hectares): 5,000,000

Elevation Range: 80 - 500m

Biome: Temperate needle-leaf forests

Biogeographic Province: West Eurasian Taiga, East Siberian Taiga

Year Designated as Biosphere Reserve: 1986

Administrative Officer

Contact:
Rassolov A.G.
Director of Zapovednik

Address:
Tsentral'nosibirskiy Zapovednik
Turukhanskiy District
Krasnoyarskiy Kray
Bor
663196 Russian Federation

Telephone: [7](095) Order via operator, 8-813, 7625

Principal Monitoring and Research Themes:

Inventory and ecology of soil, vegetation, and animal populations

Biosphere Reserve: **Voronezhskiy**

Administrative Unit: Voronezhskiy Zapovednik

Administering Entity: Government of Russian Federation

Location: 52°0'N, 39°41'E

Area (hectares): 31,100

Elevation Range: 90 - 170m

Biome: Temperate broad-leaf forests

Biogeographic Province: Middle European Forest

Year Designated as Biosphere Reserve: 1984

Administrative Officer

Contact:
Semyonov V.A.
Director of Zapovednik

Address:
Voronezhskiy Zapovednik
Voronezh
Grafskaya Station
394047 Russian Federation

Telephone: [7] (095) + 80732-269542

Principal Monitoring and Research Themes:

Soil fauna: plant growth/ development relationships
Avian and mammalian parasitology
Insect ecology
Mammalian reproductive biology
Forest succession studies
Ecology of bryophytes

NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name: Dr. Juraj Holcik

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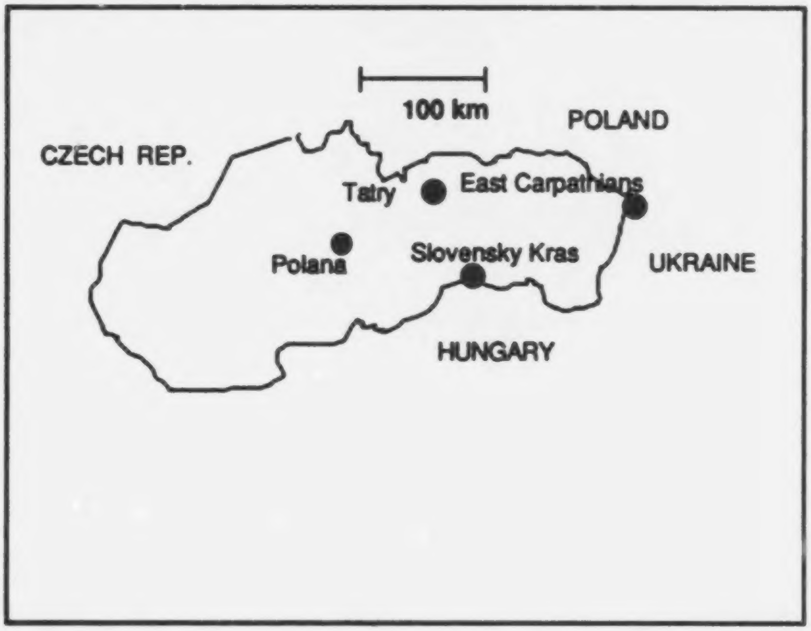
Institute of Zoology and Ecosozology
Slovak Academy of Sciences
Manesovo 2
851 01 Bratislava
Slovak Republic

Telephone: [42] (7) + 846-701
FAX: [42] (7) + 840-363

BIOSPHERE RESERVE LOCATION MAP
SLOVAKIA


100 km
POLAND
CZECH REP.
Tatry
East Carpathians
Polana
Slovensky Kras
UKRAINE
HUNGARY

Biosphere Reserve: **East Carpathians**
(see also Eastern Beskid, Poland)

Administrative Unit: East Carpathian Protected Landscape Area

Administering Entity: Administration of the East Carpathian
Protected Landscape Area
Ministry of Environment

Location: 48°56'N - 49°11'N, 22°09'-34'E

Area (hectares): 40,601

Elevation Range: 210 - 1208m

Biome: Temperate broad-leaf forests and woodlands

Biogeographic Province: Middle European Forest

Year Designated as Biosphere Reserve: 1992

Administrative Officer

Contact: Jan Terray

Address:
Lipova 19
066 01 Humenne
Slovak Republic

Telephone: [42] (933) + 3632

Principal Monitoring and Research Themes:

Biodiversity in forests
Aquatic ecosystems
Biotopes mapping
Agricultural research
Vegetation monitoring - forest ecosystems, meadow ecosystems
Inventory of flora and fauna
Wildlife population dynamics
Traditional cultivars of fruit trees

Biosphere Reserve:	**Polana**
Administrative Unit:	Polana Protected Landscape Area/ Biosphere Reserve
Administering Entity:	Polana Administration (Ministry of Environment)
Location:	48°39'N, 19°29'E
Area (hectares):	20,079
Elevation Range:	460 - 1458m
Biome:	Temperate broad-leaf forests
Biogeographic Province:	Middle European Forest

Year Designated as Biosphere Reserve: 1990

	Administrative Officer
Contact:	Dusan Slavik
Address:	J.M. Hurbana 20 960-01 Zvolen Slovak Republic
Telephone:	[42] (855) + 23657

Principal Monitoring and Research Themes:

Inventory of flora and fauna
Agricultural research
Appropriate rural technology
Aquatic ecosystems
Biogeochemical cycling
Climatological monitoring
Ecosystems (succession, modeling, comparative studies)
Vegetation monitoring
Wildlife population dynamics
Research on rare species
Geomorphology, pedology
Water pollutants
Atmospheric pollutants
Ecosystem restoration

Biosphere Reserve: Slovensky Kras

Administrative Unit: Slovak Karst Protected Landscape Area/
Biosphere Reserve

Administrative Entity: Slovak Karst Administration
(Ministry of Environment)

Location: 48°35'N, 20°40'E

Area (hectares): 36,165

Elevation Range: 200 - 925m

Biome: Temperate broad-leaf forests

Biogeographic Province: Middle European Forest

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Mikulas Rozloznik

Address:
Brzotin 188
049 51
Slovak Republic

Telephone: [42] (942) + 82198

Principal Monitoring and Research Themes:

Inventory of flora
Vegetation mapping
Abiotic, biotic, and human environments
Geology, geomorphology, and speleology
Monitoring of flora and fauna
Research on rare species
Atmospheric pollutants
Hydrography regime change

Biosphere Reserve: **Tatry**
(see also Tatra Mountains, Poland)

Administrative Unit: Tatra National Park

Administering Entity: Administration of the Tatra National Park (Ministry of Agriculture)

Location: 49°10'N, 19°57'E

Area (hectares): 105,660

Elevation Range: ? - 2655m

Biome: Temperate broad-leaf forests or woodlands

Biogeographic Province: Middle European Forest

Year Designated as Biosphere Reserve: 1992

Administrative Officer

Contact: Ivan Voloscuk

Address:
Tatra National Park Administration (TANAP)
Tatranska Lomnica
059 60
Slovak Republic

Telephone: [42] (969) + 967-9518
FAX: [42] (969) + 967-959

Principal Monitoring and Research Themes:

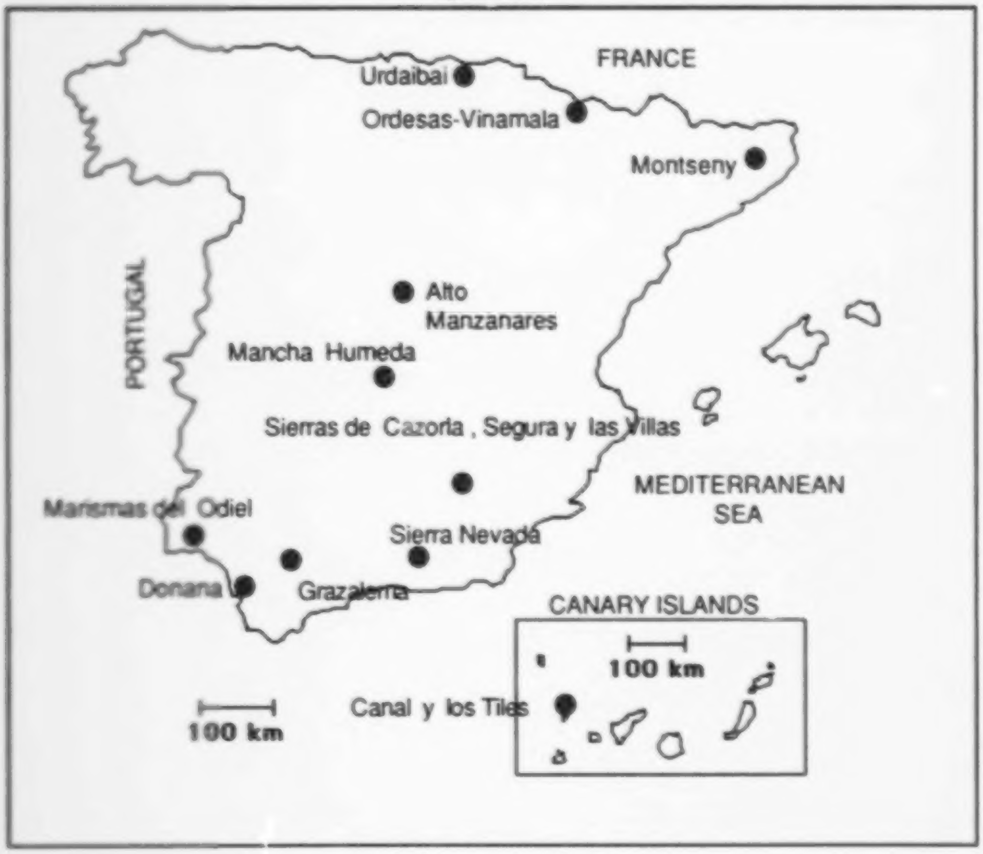
NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name: D. Ignaci Castello i Vidal

Address:
Servicio de Parques Naturales
Deputacion de Barcelona
Conde de Urgell, 187
08036 Barcelona
Spain

Telephone: [34] (3) + 302-0778
FAX: [34] (3) + 402-2494

BIOSPHERE RESERVE LOCATION MAP
SPAIN


FRANCE
Urdaibai
Ordesas-Vinamala
Montseny
PORTUGAL
Alto Manzanares
Mancha Humeda
Sierras de Cazorla , Segura y las Villas
MEDITERRANEAN SEA
Marismas del Odiel
Sierra Nevada
Donana
Grazalema
CANARY ISLANDS
100 km
Canal y los Tiles
100 km

Biosphere Reserve: **Alto Manzanares**

Administrative Unit: Parque Regional de la Cuenca Alta del Manzanares

Administering Entity: Agencia de Medio Ambiente - Comunidad de Madrid

Location: 40°30'-49'N, 03°33'-04°00'W

Area (hectares): 46,323

Elevation Range: 615 - 2,383m

Biome: Mixed mountain and highland systems with complex zonation

Biogeographical Province: Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1992

Administrative Officer

Contact:
Jose Manuel Nicolas
Director - Conservador
Parque Regional de la Cuenca Alta del Manzanares

Address:
Agencia de Medio Ambiente de la Comunidad de Madrid
Princesa 3
28003 Madrid
Spain

Telephone: [34] (1) + 580-3900

Principal Monitoring and Research Themes:

Ecological cartography
Ecosystems/wetlands
Landscape conservation and recreation
Agroecosystems

Biosphere Reserve: **El Canal y los Tiles**

Administrative Unit:

Administering Entity: Vice-Consejeria del Medio Ambiente

Location: 28°40'N, 17°40'W

Area (hectares): 511

Elevation Range: 250 - 1,400m

Biome: Mixed island systems

Biogeographical Province: Macaronesian Islands

Year Designated as Biosphere Reserve: 1983

Administrative Officer

Contact: Jefe Unidad Insular

Address:
Avenida Anaga, 35-7.
38001 Santa Cruz de Tenerife
Islas Canarias
Spain

Telephone: [34] (22) + 291-732
FAX: [34] (22) + 291-622

Principal Monitoring and Research Themes:

Canary Islands/relict laurisilva ecosystems

Biosphere Reserve: **Donana**

Administrative Unit: Donana National Park

Administering Entity: Instituto para la Conservacion de la Naturaleza (government)

Location: 37°00'N, 06°30'W

Area (hectares): 50,720

Elevation Range: 0 - 32m

Biome: Evergreen sclerophyllous woodlands (includes coastal/marine component)

Biogeographical Province: Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1981

Administrative Officer

Contact:

Address:

Telephone: [34] (55) +
FAX: [34] (55) +

Principal Monitoring and Research Themes:

Endangered species
Ecological interaction
Population dynamics
Hydrology
Water quality
Biodiversity
Climate
Fires
Socioanthropology

Biosphere Reserve:	**Grazalema**
Administrative Unit:	Parque Natural Sierra de Grazelema
Administering Entity:	Agencia de Medio Ambiente de la Junta de Andalucia
Location:	36°15'-36°54'N, 05°20'-05°32'W
Area (hectares):	32,210
Elevation Range:	250 - 1,654m
Biome:	Mixed mountain and highland systems with complex zonation
Biogeographical Province:	Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact: Juan Carlos Neva

Address:

Avenida Diputacion s/n
El Bosque
11670 Cadiz
Spain

Telephone:

[34] (56) + 716-063
[34] (56) + 716-236

FAX: [34] (56) + 716-339

Principal Monitoring and Research Themes:

Survey of vascular plants
Vegetation mapping
Structure/ function of fir, hardwood, maquis communities
Biological evolution

Biosphere Reserve: **La Mancha Humeda**

Administrative Units: Multiple units. The biosphere reserve includes La Mancha Humeda National Park and other protected areas

Administering Entity: Parque Nacional "Las Tablas de Damiel" Instituto para la Conservacion de la Naturaleza (ICONA)

Location: 39°16'N, 03°24'E

Area (hectares): 25,000

Elevation Range: 600 - 700m

Biome: Evergreen sclerophyllous woodlands

Biogeographical Province: Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1980

Administrative Officer

Contact:

Address:

Telephone: [34] (26) +
FAX: [34] (26) +

Principal Monitoring and Research Themes:

Meteorology
Bird populations
Water quality

Biosphere Reserve: **Las Marismas del Odiel**

Administrative Unit: Biosphere reserve

Administering Entity: Agencia de Medio Ambiente de la Junta de Andalucia

Location: At mouth of Odiel River

Area (hectares): 8,758

Elevation Range: 0 - 10m

Biome: Evergreen sclerophyllous woodlands (includes coastal/marine component)

Biogeographical Province: Mediterranean sclerophyll

Year Designated as Biosphere Reserve: 1983

Administrative Officer

Contact: Juan Carlos Rubio Garcia

Address:
Avenida de Sanlucar de Barrameda, 3-20
21001 Huelva
Spain

Telephone: [34] (55) + 210-321
FAX: [34] (55) + 210-322

Principal Monitoring and Research Themes:

Marshland ecosystems
Ornithology
Archeology

Biosphere Reserve: **Montseny**

Administrative Unit: Parque Natural del Montseny

Administering Entity: Servei de Parques Naturales, Diputacio de Barcelona

Location: 41°47'N, 06°03'E

Area (hectares): 17,372

Elevation Range: 270 - 1,707m

Biome: Mixed mountain and highland systems with complex zonation

Biogeographical Province: Iberian highlands

Year Designated as Biosphere Reserve: 1978

Administrative Officer

Contact: Eduard Botey

Address:
Oficina del Parc Natural del Montseny
Fontmartina
08470 Fogars de Montclus (Barcelona)
Spain

Telephone: [34] (3) + 847-5102
FAX: [34] (3) + 847-5102

Principal Monitoring and Research Themes:

Anthropology
Landscape structure and dynamics
Geological structure and dynamics
Limnology

Biosphere Reserve: **Ordesa-Vinamala**

Administrative Unit: Vinamala Reserve, including Ordesa National Park

Administering Entity: Instituto para la Conservacion de la Naturaleza (government)

Location: 42°30'-42°43'N, 0°07'-0°12'E

Area (hectares): 51,396

Elevation Range: 875 - 3,941m

Biome: Mixed mountain and highland systems with complex zonation

Biogeographical Province: Iberian Highlands

Year Designated as Biosphere Reserve: 1977

Administrative Officer

Contact:

Address:

Telephone: [34] (74) +
FAX: [34] (74) +

Principal Monitoring and Research Themes:

Inventory of flora and fauna
Vegetation management
Wildlife management
Ecological effects of public use

Biosphere Reserve: **Las Sierras de Cazorla, Segura y Las Villas**

Administrative Unit: Las Sierras de Cazorla y Segura Resource and Hunting Reserve

Administering Entity: Agencia de Medio Ambiente de la Junta de Andalucia

Location: East Jaen Province, Andalucia

Area (hectares): 190,000

Elevation Range: 600 - 2,100m

Biome: Mixed mountain and highland systems with mixed zonation

Biogeographical Province: Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1983

Administrative Officer

Contact:
Emilio Gonzalez, Director-Conservador
P.N. Sierras de Cazorla,Segura y Las Villas

Address:
Avenida de Andalucia, 79 pral.
23071 Jaen
Spain

Telephone: [34] (53) + 223-150
FAX: [34] (53) + 251-039

Principal Monitoring and Research Themes:

Ecological plant-animal interactions

Biosphere Reserve: **Sierra Nevada**

Administrative Unit: Reserva Nacional de Caza de Sierra Nevada

Administering Entity: Agencia de Medio Ambiente de la Junta de Andalucia

Location: 36°56'-37°14'N, 2°45'-3°32'W

Area (hectares): 190,000

Elevation Range: 400 - 3,482m

Biome: Mixed mountain and highland systems with complex zonation

Biogeographical Province: Mediterranean Sclerophyll

Year Designated as Biosphere Reserve: 1986

Administrative Officer

Contact: Juan Rodriguez de Velasco y Vega

Address:
Gran Via de Colon, 48-3.
18010 Granada
Spain

Telephone: [34] (58) + 290-062
FAX: [34] (58) + 277-600

Principal Monitoring and Research Themes:

Monitoring of Capsa pyrenaica hispanica population, diseases
Protection and reproduction monitoring of endangered high mountain flora species
Ski station effects on rivers

Biosphere Reserve:	**Urdaibai**
Administrative Unit:	Biosphere reserve containing multiple ownerships
Administering Entity:	Departamento de Urbanismo, Vivienda y Medio Ambiente, Vice-consejeria de Medio Ambiente
Location:	43°20'N, 2°41'W
Area (hectares):	22,500
Elevation Range:	0 - 804m
Biome:	Evergreen sclerophyllous woodlands
Biogeographical Province:	Iberian Highlands

Year Designated as Biosphere Reserve: 1984

Administrative Officer

Contact:	Anton Uranburu Albizuri
Address:	Calle Samaniego, 2 01008 Vitoria-Gastiez Spain
Telephone:	[34] (45) + 135-209 [34] (45) + 189-567
FAX:	[34] (45) + 135-095

Principal Monitoring and Research Themes:

Environmental education
Industrial wastes
Heavy metals pollutants
Biological research

NATIONAL CONTACT FOR BIOSPHERE RESERVES

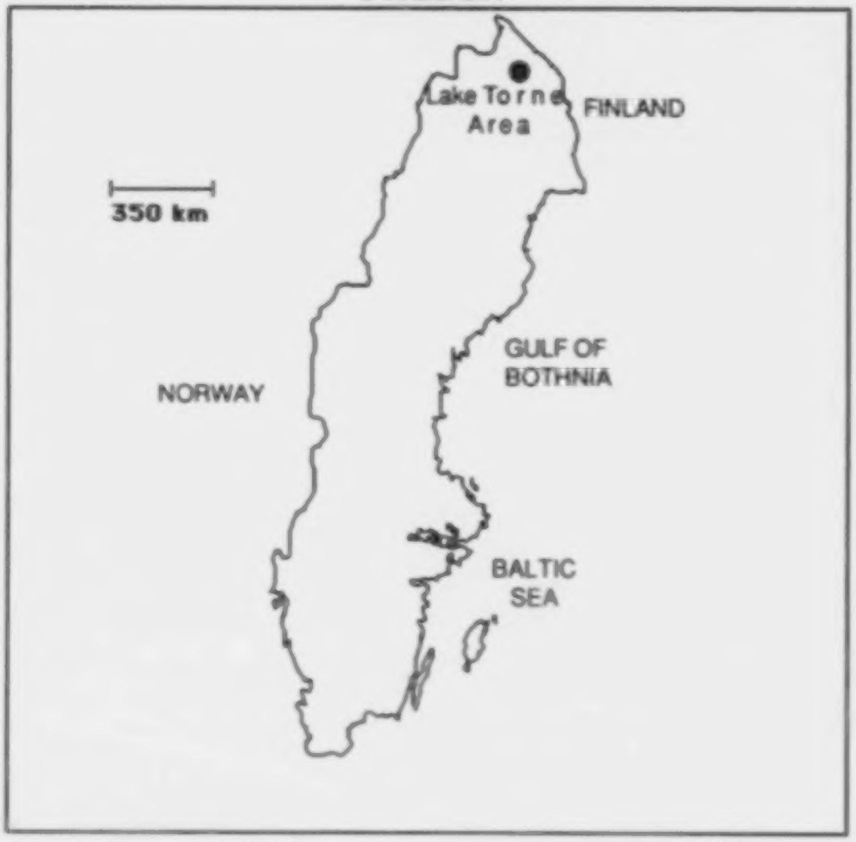
Name:
Dr. Uno Svedin
Head of Divison, Executive Secretary
Swedish MAB Committee

Address:
Swedish Council for Planning and Coordination of Research (FRN)
P.O. Box 6710
S-113 85 Stockholm
Sweden

Telephone: [46] (8) + 610-0600
FAX: [46] (8) + 610-0633

BIOSPHERE RESERVE LOCATION MAP

SWEDEN


Lake Torne Area
FINLAND
350 km
GULF OF BOTHNIA
NORWAY
BALTIC SEA

Biosphere Reserve: **Lake Torne Area**

Administering Entity: Swedish Environmental Protection Board and Royal Swedish Academy of Sciences

Location: 68°25'N, 19°00'E

Area (hectares): 96,500

Elevation Range: 340 - 1,610m

Biome: Tundra

Biogeographical Province: Subarctic Birchwoods (Forest Tundra and mountain tundra)

Year Designated as Biosphere Reserve: 1986

	Administrative Officer	Site Manager
Contact:	Jan From	Mats Sonesson
Address:	Swedish Environmental Protection Board Mountain Unit Asgatan 20 S-960 40 Jokkmokk Sweden	Royal Swedish Academy of Sciences Abisko Research Station S-980 24 Abisko Sweden
Telephone:	[46] (971) + 12330	[46] (980) + 40039
FAX:		[46] (980) + 40171

Principal Monitoring and Research Themes:

Meteorological observations
Ground water monitoring
Atmospheric deposition
Geophysical monitoring
Comparative ecological research
Comparative geomorphological research

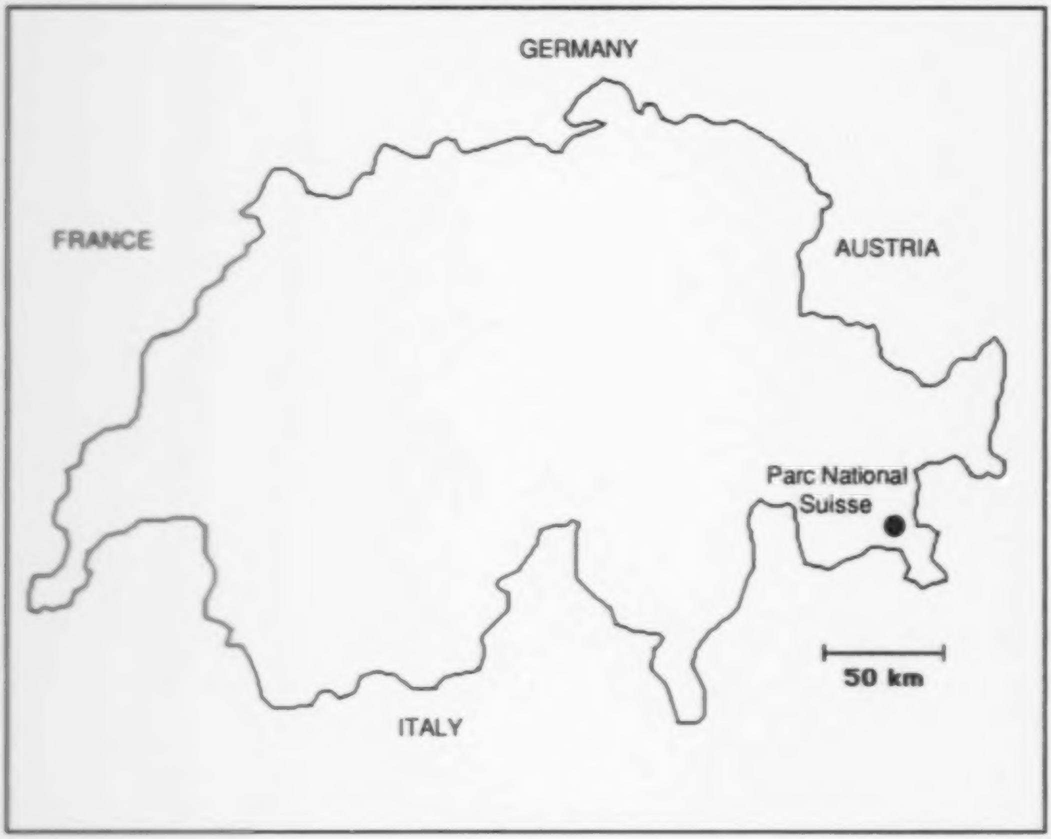
NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name: Dr. Jurg Zihler
Swiss National Committee for MAB

Address: Bundesamt fur Umwelt, Wald und Landschaft
CH-3003 Bern
Switzerland

BIOSPHERE RESERVE LOCATION MAP

SWITZERLAND


GERMANY
FRANCE
AUSTRIA
Parc National Suisse
50 km
ITALY

Biosphere Reserve: **Suisse**

Administrative Unit: Parc national Suisse

Administering Entity: Federal Office of Environment, Forests and Landscape, Main Division Conservation Nature and Landscape

Location: 46°35'-46°45'N, 10°00'-10°20'E

Area (hectares): 16,870

Elevation Range: 1,500 - 3,174m

Biome: Mixed mountain systems with complex zonation

Biogeographical Province: Central European Highlands

Year Designated as Biosphere Reserve: 1979

Administrative Officer

Contact:
Klaus Rubin
Director, Swiss National Park

Address:
National Park House
7530 Zernez (GR)
Switzerland

Telephone: [41] (82) + 813-78
FAX: [41] (31) + 619-981
E-Mail: RP Lebeau 31 618064

Principal Monitoring and Research Themes:

Ecology of forest and alpine systems

NATIONAL CONTACT FOR BIOSPHERE RESERVES

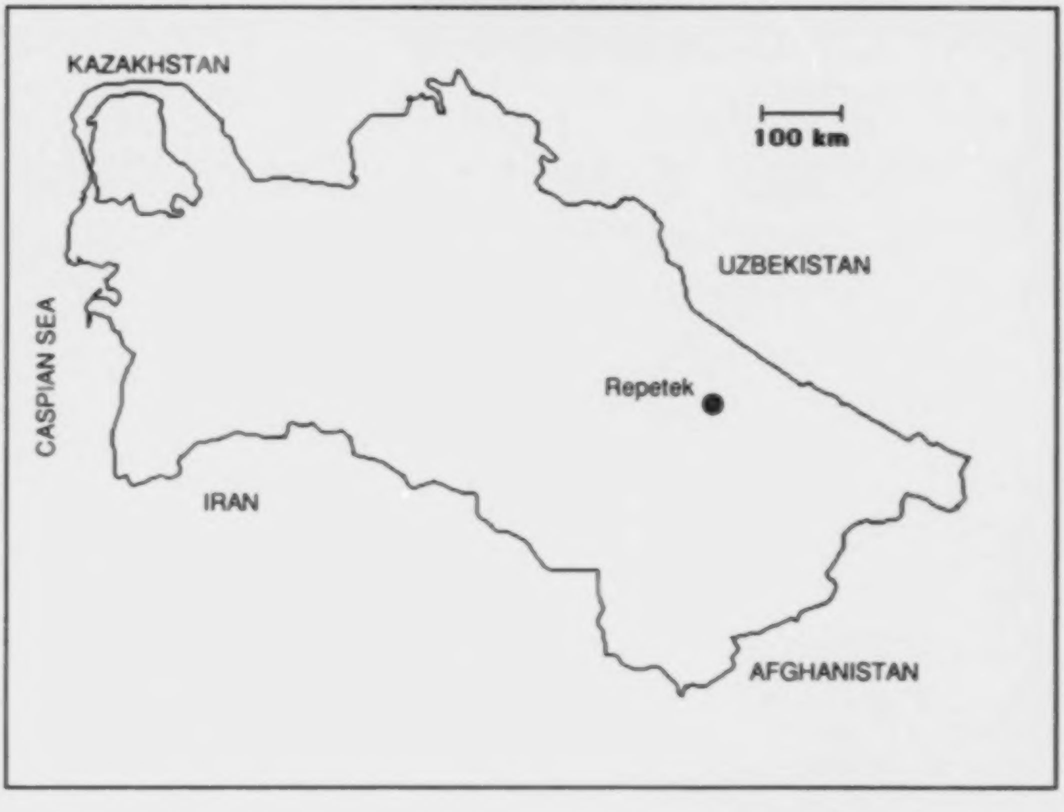
Name: Babaev, A.G.

Address:
15 Golgol St.
744000 Ashgabat
Turkmenistan

Telephone: [7] (3632) + 253-716
FAX: [7] (3632) + 253-716

BIOSPHERE RESERVE LOCATION MAP

TURKMENISTAN


KAZAKHSTAN
100 km
UZBEKISTAN
CASPIAN SEA
Repetek
IRAN
AFGHANISTAN

Biosphere Reserve: **Repetek**

Administrative Unit: Repetek Zapovednik

Administering Entity: The Desert Institute of the Academy of Science of Turkmenistan

Location: 38°16'N, 63°13'E

Area (hectares): 34,600

Elevation Range: 180 - 220m

Biome: Warm-moderate desert

Biogeographic Province: Turanian

Year Designated as Biosphere Reserve: 1979

Administrative Officer

Contact:

Address:

Repetek Sand-Desert Station
Chardzhou Region, Repetek
746000 Turkmenistan

Telephone: [7] (37822) + 24470
FAX: [7] (3632) + 253-716

Principal Monitoring and Research Themes:

Forest management research
Plant and animal genetics
Use of plant resources
Dynamics of sand-desert ecosystems: shifting sand, underground water, soil moisture, phenology, productivity, succession, faunal composition, and distribution

NATIONAL CONTACT FOR BIOSPHERE RESERVES

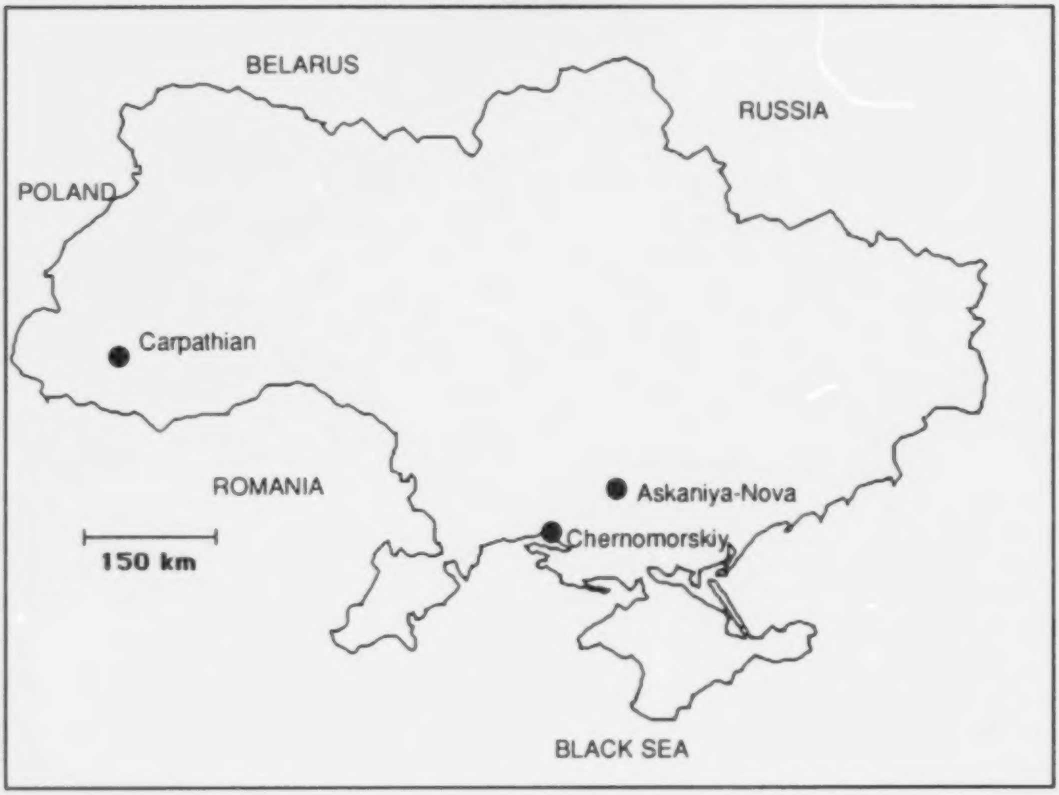
Name: Valery P. Kukhar

Address:
Ukrainian National MAB Committee
54 Vladimirskaya St.
Kiev 30 252601
Ukraine

Telephone: [7] (44) + 221-6769, [7] (44) + 225-0134
FAX: [7] (44) + 224-3243

BIOSPHERE RESERVE LOCATION MAP

UKRAINE


BELARUS
RUSSIA
POLAND
Carpathian
ROMANIA
Askaniya-Nova
Chernomorskiy
150 km
BLACK SEA

Biosphere Reserve: **Askaniya-Nova**

Administrative Unit: Biosphere reserve includes Askaniya-Nova Zapovednik and surrounding multiple use area

Administering Entity: State government

Location: 46°28'N, 33°55'E

Area (hectares): 33,307

Elevation Range: 8 - 30m

Biome: Temperate grasslands

Biogeographical Province: Pontian Steppe

Year Designated as Biosphere Reserve: 1984

Administrative Officer

Contact: Hawrylenko Victor Semenowytch
Director, Askaniya-Nova Zapovednik

Address:
Chaplynsky district
Kherson region
Ukraine 326332

Telephone: [7] (05538) + 61147

Principal Monitoring and Research Themes:

Ecology of grazed steppe, effect of human activities
Wildlife population dynamics

Biosphere Reserve: **Carpathian**

Administrative Unit: Carpathian State Reserve, Republican Reservation "Stuzhitsa"

Administering Entity: State government

Location:

Area (hectares): 38,930

Elevation Range: 200 - 2,061m

Biome: Mixed mountain and highland systems with complex zonation

Biogeographical Province: Central European Highlands

Year Designated as Biosphere Reserve: 1992

Administrative Officer

Contact:

Address:
Carpathian State Biosphere Reserve
Krasnoye Plesso, 77
Rakhov 295800
Ukraine

Telephone: [7] (03132) + 22659

Principal Monitoring and Research Themes:

Biosphere Reserve: **Chernomorskiy**

Administrative Unit: Chernomorskiy Zapovednik

Administering Entity: State government

Location: 46°12'N, 32°00'E

Area (hectares): 87,348

Elevation Range: 0 - 100m

Biome: Temperate grasslands
(includes coastal/marine component)

Biogeographical Province: Pontian Steppe

Year Designated as Biosphere Reserve: 1984

Administrative Officer

Contact: Mayatsky Georgi Borysowytch
Director

Address:
Lermontov St.1
Gola Prystan
Kherson region
Ukraine 326240

Telephone: [7] (05539) + 2675

Principal Monitoring and Research Themes:

Study of sandy steppes, woodlands, fresh and brackish waters and steppe-sea ecotone

Monitoring of breeding and migratory birds

NATIONAL CONTACT FOR BIOSPHERE RESERVES

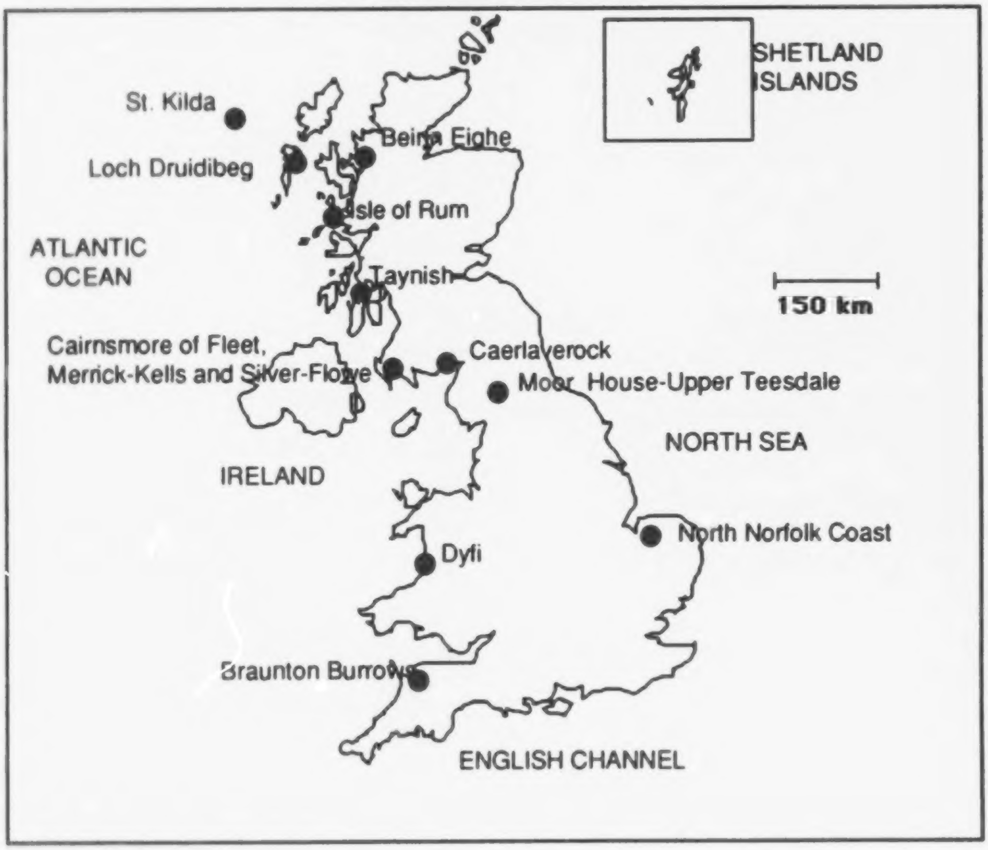
Name:
Prof. Michael G. Morris
Secretary, MAB National Committee

Address:
United Kingdom MAB National Committee
Institute of Terrestrial Ecology
Furzebrook Research Station
Wareham, Dorset BH20 5AS
United Kingdom

Telephone: [44] (929) + 551-518
FAX: [44] (929) + 551-087

BIOSPHERE RESERVE LOCATION MAP

UNITED KINGDOM


SHETLAND ISLANDS
St. Kilda
Beinn Eighe
Loch Druidibeg
Isle of Rum
ATLANTIC OCEAN
Taynish
150 km
Cairnsmore of Fleet, Merrick-Kells and Silver-Flowe
Caerlaverock
Moor House-Upper Teesdale
NORTH SEA
IRELAND
North Norfolk Coast
Dyfi
Braunton Burrows
ENGLISH CHANNEL

Biosphere Reserve: **Beinn Eighe**

Administrative Unit: Beinn Eighe National Nature Reserve

Administering Entity: Scottish Natural Heritage

Location: 57°30'-57°39'N, 5°18'-5°30'W

Area (hectares): 4,800

Elevation Range: 0 - 1,053m

Biome: Mixed mountain systems with complex zonation
(includes coastal/marine component)

Biogeographic Province: Scottish Highlands

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	P.J. Tilbrook	T. Clifford
Address:	Scottish Natural Heritage North-west Region Fraser Darling House 9 Culduthel Road Inverness IV2 4AG Scotland United Kingdom	Ialtag Anancaun Field Station Kinlochewe, Ross-shire Scotland United Kingdom
Telephone:	[44] (463) + 239-431	[44] (44584) + 244
FAX:	[44] (463) + 710-713	

Principal Monitoring and Research Themes:

Ecosystem restoration of lowland woodlands
Ungulate ecology and management (deer)
Research on montane ecosystems

Biosphere Reserve: **Braunton Burrows**

Administrative Unit: Braunton Burrows National Nature Reserve

Administering Entity: English Nature (South-west Region)

Location: 51°06'N, 04°12'W

Area (hectares): 596

Elevation Range: 0 - 30m

Biome: Temperate broad-leaf forests
(includes coastal/marine component)

Biogeographic Province: British Islands

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	M. Hudson	John Breeds
Address:	English Nature South-west Region Roughmoor, Bishop's Hull Taunton, Somerset TA1 5AA England United Kingdom	Broadeford Farm, Heddon Mill Braunton, North Devon EX33 2NQ England United Kingdom
Telephone:	[44] (823) + 283-211	[44] (271) + 812-552
FAX:	[44] (823) + 272-97	

Principal Monitoring and Research Themes:

Biological inventory
Ecosystem restoration (dune systems)
Coastal geomorphology
Effects of natural and human influences on biota

Biosphere Reserve:	**Caerlaverock**
Administrative Unit:	Caerlaverock National Nature Reserve
Administering Entity:	Scottish Natural Heritage
Location:	54°52'N, 3°30'W
Area (hectares):	5,501
Elevation Range:	0 - 10m
Biome:	Temperate broad-leaf forests (includes coastal/marine component)
Biogeographic Province:	British Islands

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	Christopher H.C. Fox	Marion Hughes
Address:	Scottish Natural Heritage South-west Region Caspian House 2 mariner Court Clydebank Business Park Clydebank, G81 2NR Scotland United Kingdom	106 High Street Dalbeattie Kirkcudbrightshire DG5 4HB Scotland United Kingdom
Telephone:	[44] (41) + 951-4488	[44] (556) + 610-086
FAX:	[44] (41) + 951-4510	[44] (556) + 611-924

Principal Monitoring and Research Themes:

Ecosystem dynamics of tidal marshes
Wildlife management research
 (barnacle geese)
Faunal populations
 (emphasis on birds and herpetofauna)

Biosphere Reserve: **Cairnsmore of Fleet, Merrick-Kells and Silver-Flowe**

Administrative Unit: Cairnsmore of Fleet National Nature Reserve

Administering Entity: Scottish Natural Heritage

Location: 54°58'N, 4°17'W

Area (hectares): 1,922

Elevation Range: 200 - 710m

Biome: Temperate broad-leaf forests

Biogeographic Province: British Islands

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	Christopher H.C. Fox	Marion Hughes
Address:	Scottish Natural Heritage South-west Region Caspian House 2 Mariner Court Clydebank Business Park Clydebank, G81 2NR Scotland United Kingdom	106 High Street Dalbeattie Kirkcudbrightshire DG5 4HB Scotland United Kingdom
Telephone	[44] (41) + 951-4488	[44] (556) + 610-086
FAX:	[44] (41) + 951-4510	[44] (556) + 611-924

Principal Monitoring and Research Themes:

Floristic and faunal studies
Studies of land use history

Biosphere Reserve: **Claish Moss**

Administrative Unit: Claish Moss National Nature Reserve

Administering Entity: Scottish Natural Heritage

Location: 56°00'N, 05°45'W

Area (hectares): 480

Elevation Range: 0 - 20m

Biome: Mixed mountain systems with complex zonation (includes coastal/marine component)

Biogeographic Province: Scottish Highlands

Year Designated as Biosphere Reserve: 1977

	Administrative Officer	Site Manager
Contact:	P.J. Tilbrook	Stewart Angus Manager, Western Isles
Address:	Scottish Natural Heritage North-west Region Fraser Darling House 9 Culduthel Road Inverness IV2 4AG Scotland United Kingdom	17 Francis Street Stornoway Isle of Lewis PA87 2NB Scotland United Kingdom
Telephone:	[44] (463) + 239-431 [44] (463) + 710-713	[44] (0851) + 705-258 [44] (0851) + 704-900

Principal Monitoring and Research Themes:

Biosphere Reserve: **Dyfi**

Administrative Unit: Dyfi National Nature Reserve

Administering Entity: Countryside Council for Wales

Location: 52°32'N, 4°00'W

Area (hectares): 1,598

Elevation Range: 0 - 15m

Biome: Temperate broad-leaf forest (includes coastal/marine component)

Biogeographic Province: British Islands

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	Chris Fuller	Mike Daly
Address:	Countryside Council for Wales: Aberystwyth Office Plas Gogerddan Aberystwyth, Dyfed SY23 3EE Wales United Kingdom	Warden's Office Tal y Bont Aberystwyth, Dyfed SY24 5EQ Wales United Kingdom
Telephone:	[44] (970) + 828-551	[44] (970) + 86485
FAX:	[44] (970) + 828-314	

Principal Monitoring and Research Themes:

Biosphere Reserve: **Isle of Rum**

Administrative Unit: Isle of Rum National Nature Reserve

Administering Entity: Scottish Natural Heritage

Location: 57°00'N, 06°30'W

Area (hectares): 10,560

Elevation Range: 0 - 812m

Biome: Mixed mountain systems with complex zonation
(includes coastal/marine component)

Biogeographic Province: Scottish Highlands

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	P.J. Tilbrook	Martin Curry
Address:	Scottish Natural Heritage North-west Region Fraser Darling House 9 Culduthel Road Inverness, IV2 4AG Scotland United Kingdom	White House Isle of Rum Scotland United Kingdom
Telephone:	[44] (463) + 239-431	[44] (687) + 2026
FAX:	[44] (463) + 710-713	

Principal Monitoring and Research Themes:

Monitoring of flora and fauna
Geological studies

Biosphere Reserve: **Loch Druidibeg**

Administrative Unit: Loch Druidibeg National Nature Reserve

Administering Entity: Scottish Natural Heritage

Location: 57°20'N, 7°15'W

Area (hectares): 1,658

Elevation Range: 0 - 30m

Biome: Mixed mountain systems with complex zonation
(includes coastal/marine component)

Biogeographic Province: Scottish Highlands

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	P.J. Tilbrook	Stewart Angus Manager, Western Isles
Address:	Scottish Natural Heritage North-west Region Fraser Darling House 9 Culduthel Road Inverness IV2 4AG Scotland United Kingdom	17 Francis Street Stornoway Isle of Lewis PA87 2NB Scotland United Kingdom
Telephone:	[44] (463) + 239-431	[44] (0851) + 705-258
FAX:	[44] (463) + 710-713	[44] (0851) + 704-900

Principal Monitoring and Research Themes:

Biosphere Reserve: **Moor House-Upper Teesdale**

Administrative Units: Moor House and Upper Teesdale National Nature Reserves

Administering Entity: English Nature
(North-west Region)

Location: 54°65'N, 2°45'W, 54°36'N, 3°12'W

Area (hectares): 7,399

Elevation Range: 305 - 850m

Biome: Temperate broad-leaf forests

Biogeographic Province: British Islands

Year Designated as Biosphere Reserve: 1976

	Administative Officer	Site Manager
Contact:	William Williams	Terry Wells
Address:	Blackwall Bowness-on-Windermere Cumbria LA23 3JR England United Kingdom	Appleby Business Center 3 Bridge Street Appleby, Cumbria CA16 6QH England United Kingdom
Telephone:	[44] (5394) + 45286	[44] (7683) + 52347
FAX:	[44] (5394) + 88432	[44] (7683) + 52546

Principal Monitoring and Research Themes:

Structure and function of bog ecosystems
Monitoring of biotic and abiotic environment
Dynamics of plant-animal relationships
Effects of natural and human influences on biota

Biosphere Reserve:	**North Norfolk Coast**
Administrative Units:	Multiple units (Scolt Head and Holkham National Nature Reserves; Blakeney Point, and Cley and Salthouse Marshes Sites of Special Scientific Interest)
Administering Entities:	English Nature,National Trust (East Anglia Regional Agent), and Norfolk Naturalists' Trust
Location:	52°56'-52°57'N, 0°43'-1°00'E
Area (hectares):	5,497
Elevation Range:	0 - 20m
Biome:	Temperate broad-leaf forests (includes coastal/marine component)
Biogeographic Province:	British Islands

Year Designated as Biosphere Reserve: 1976

	Administrative Officer
Contact:	Senior Officer, English Nature (Norfolk)
Address:	60 Bracondale Norwich NR1 2BE England United Kingdom
Telephone:	[44] (603) + 620-558
FAX:	

Principal Monitoring and Research Themes:

Ecology of salt marshes and dune systems

Biosphere Reserve: **St. Kilda**

Administrative Unit: St. Kilda National Nature Reserve

Administering Entity: Scottish Natural Heritage

Location: 57°49'N, 8°34'W

Area (hectares): 842

Elevation Range: 0 - 430m

Biome: Mixed mountain systems with complex zonation
(includes coastal/marine component)

Biogeographic Province: British Islands

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	P.J. Tilbrook	Stewart Angus Manager,Western Isles
Address:	Scottish Natural Heritage North-west Region Fraser Darling House 9 Culduthel Road Inverness IV2 4AG Scotland United Kingdom	17 Francis Street Stornoway Isle of Lewis PA87 2NB Scotland United Kingdom
Telephone:	[44] (463) + 239-431	[44] (0851) + 705-258
FAX:	[44] (463) + 710-713	[44] (0851) + 704-900

Principal Monitoring and Research Themes:

Monitoring of flora and fauna (emphasis on sea birds)
Population dynamics of Soay sheep

Biosphere Reserve: **Taynish**

Administrative Unit: Taynish National Nature Reserve

Administering Entity: Scottish Natural Heritage

Location: 56°00'N, 5°38'W

Area (hectares): 326

Elevation Range: 0 - 100m

Biome: Temperate broad-leaf forests (includes coastal/marine component)

Biogeographic Province: British Islands

Year Designated as Biosphere Reserve: 1977

	Administrative Officer	Site Manager
Contact:	Christopher H.C. Fox	Carmen Placido
Address:	Scottish Natural Heritage South-west Region Caspian House 2 Mariner Court Clydebank Business Park Clydebank, G81 2NR Scotland United Kingdom	1 Kilmory Industrial Estate Kilmory Lochgilphead Argyll PA31 8RR Scotland United Kingdom
Telephone:	[44] (41) + 951-4488 [44] (41) + 951-4510	[44] (546) + 603-611 [44] (546) + 602-298

Principal Monitoring and Research Themes:

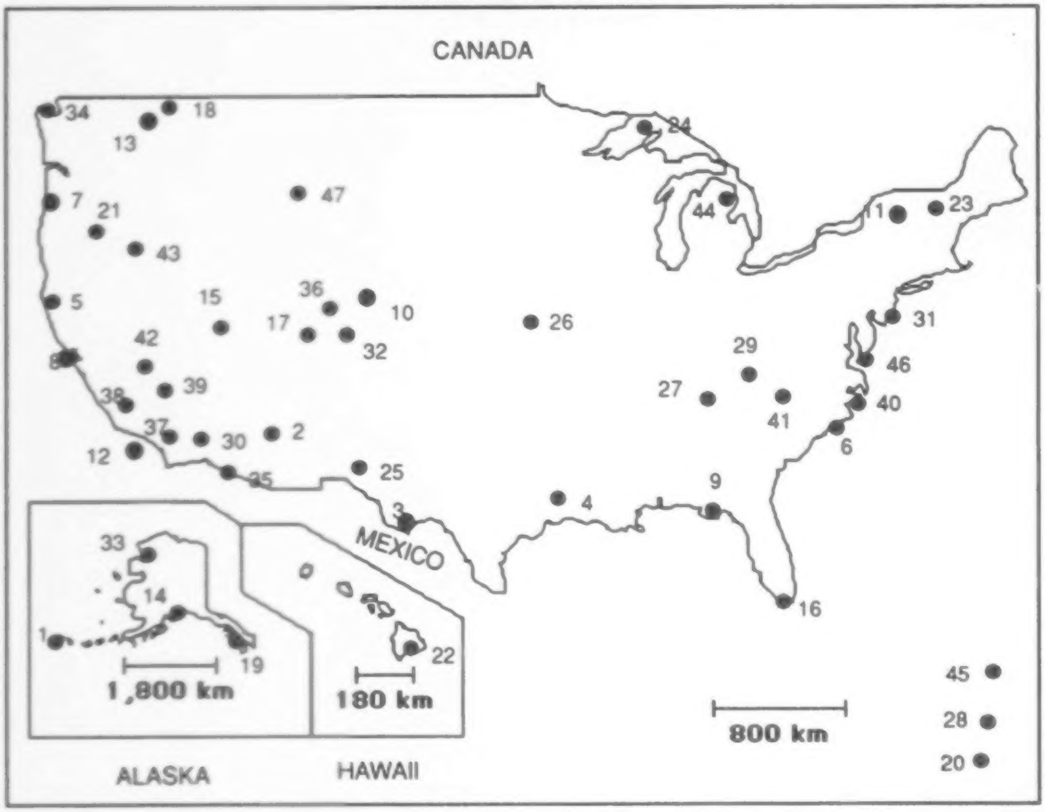
NATIONAL CONTACT FOR BIOSPHERE RESERVES

Name: Dr. Roger E. Soles
Executive Director, U.S. MAB Secretariat

Address: OES/EGC/MAB
Room 608 SA 37
Department of State
Washington, D.C. 20522-3707
U.S.A.

Telephone: [1] (703) + 235-2946
FAX: [1] (703) + 235-3002

BIOSPHERE RESERVE LOCATION MAP UNITED STATES


CANADA
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9
MEXICO
16
33
14
1
19
1,800 km
22
180 km
800 km
45
28
20
ALASKA
HAWAII

SEE NEXT PAGE FOR LIST OF NAMES OF BIOSPHERE RESERVES

1. Aleutian Islands
2. Beaver Creek
3. Big Bend
4. Big Thicket
5. California Coast Ranges
6. Carolinian-South Atlantic
7. Cascade Head
8. Central California Coast
9. Central Gulf Coastal Plain
10. Central Plains
11. Champlain-Adirondack
12. Channel Islands
13. Coram
14. Denali
15. Desert
16. Everglades
17. Fraser
18. Glacier
19. Glacier Bay-Admiralty Island
20. Guanica
21. H.J. Andrews
22. Hawaiian Islands
23. Hubbard Brook
24. Isle Royale
25. Jornada
26. Konza Prairie
27. Land Between the Lakes
28. Luquillo
29. Mammoth Cave Area
30. Mojave and Colorado Deserts
31. New Jersey Pinelands
32. Niwot Ridge
33. Noatak
34. Olympic
35. Organ Pipe Cactus
36. Rocky Mountain
37. San Dimas
38. San Joaquin
39. Sequoia-Kings Canyon
40. South Atlantic Coastal Plain
41. Southern Appalachian
42. Stanislaus-Tuolumne
43. Three Sisters
44. University of Michigan
45. Virgin Islands
46. Virginia Coast
47. Yellowstone

Biosphere Reserve: **Aleutian Islands**

Administrative Unit: Alaska Maritime National Wildlife Refuge

Administrative Entity: U.S. Department of the Interior,
U.S. Fish and Wildlife Service

Location: 54°51'-52°55'N, 163°22'-172°24'W

Area (hectares): 1,100,943

Elevation Range: 0 - 3,041m

Biome: Tundra
(includes coastal/marine component)

Biogeographic Province: Aleutian Islands

Year Designated as Biosphere Reserve: 1976

Site Manager

Contact: Daniel L. Boone

Address:
U.S. Fish and Wildlife Service
Aleutian Islands Unit, AMNW
PSC 486 Box 5251
FPO AP 96506-5251
U.S.A.

Telephone: [1] (907) + 592-2406
FAX: [1] (907) + 592-3473

Principal Monitoring and Research Themes:

Marine bird populations and productivity
Aleutian Canada goose restoration
Eradication of introduced arctic foxes
Winter waterfowl populations monitoring
Marine mammals (Steller's sea lion)

Biosphere Reserve: **Beaver Creek**

Administrative Unit: Beaver Creek Experimental Watershed

Administering Entity: U.S. Department of Agriculture, Forest Service

Location: 34°32'N, 111°65'W

Area (hectares): 111,300

Elevation Range: 900 - 2,400m

Biome: Warm deserts and semideserts

Biogeographic Province: Sonoran

Year Designated as Biosphere Reserve: 1979

Administrative Officer

Contact: Bruce Greco

Address:
Beaver Creek Experimental Watershed
2323 West Greenlaw Lane
Flagstaff, Arizona 86004
U.S.A.

Telephone: [1] (602) + 556-7374
FAX: [1] (602) + 556-7371
E-Mail: USFS(DG):R03F04A

Principal Monitoring and Research Themes:

Surface hydrology
Climate
Old-growth timber/forest research

Biosphere Reserve: **Big Bend**

Administrative Unit: Big Bend National Park

Administering Entity: U.S. Department of the Interior,
National Park Service

Location: 29°30'N, 102°103'E

Area (hectares): 283,247

Elevation Range: 533 - 2,388m

Biome: Warm deserts and semideserts

Biogeographic Province: Chihuahuan

Year Designated as a Biosphere Reserve: 1976

Site Manager

Contact: Superintendent

Address:
Big Bend National Park
Texas 79834
U.S.A.

Telephone: [1] (915) + 477-2251
FAX: [1] (915) + 477-2247

Principal Monitoring and Research Themes:

- Inventory of resources
- River use along Rio Grande
- Hydrological cycle
- Reptiles
- Geomorphology
- Water quality and flow
- Paleontology

Biosphere Reserve: **Big Thicket**

Administrative Unit: Big Thicket National Preserve

Administering Entity: U.S. Department of the Interior
National Park Service

Location: 30°31'N, 94°19'W

Area (hectares): 34,217

Elevation Range: 0 - 8m

Biome: Temperate broad-leaf forests
(includes coastal/marine component)

Biogeographic Province: Austroriparian

Year Designated as Biosphere Reserve: 1981

Site Manager

Contact: Ronald Switzer,
Superintendent

Address: Big Thicket National Preserve
3785 Milam
Beaumont, Texas 77701
U.S.A.

Telephone: [1] (409) + 839-2691
FAX: [1] (409) + 839-2599

Principal Monitoring and Research Themes:

Fire influences on plant communities
Tree demography, seedling mortality
Soil nutrient limitations on tree seedling establishment
Intensive monitoring and modeling of pollutants in airshed
River management study

Biosphere Reserve:	**California Coast Ranges**
Administrative Unit:	Multiple Units
Administering Entities:	California Department of Forests; University of California; The Nature Conservancy; U.S. Department of the Interior, Bureau of Land Management and National Park Service; U.S. Department of Agriculture, Forest Service; California Department of Parks and Recreation
Location:	39°45'N, 123°58'W; 41°30'N, 124°00'W; 36°N, 121°31'W; 36°N, 121°37'W
Area (hectares):	62,098
Elevation Range:	0 - 1,572m
Biome:	Temperate rain forests (includes coastal/marine component)
Biogeographic Province:	Oregonian
Year Designated as Biosphere Reserve:	1983

Administrative Officer

Contact:	Debra Elliott-Fisk, Director
Address:	Natural Reserve System, University of California 300 Lakeside Drive, 6th floor Oakland, California 94612-3560
Telephone:	[1] (510) 987-0150
FAX:	[1] (510) 763-2971

(information continued on next page)

Information continued:

Biosphere Reserve: **California Coast Ranges**

Site Managers

	Peter Steel	John Smiley
Address:	Northern California Coast Range Preserve 42101 Wilderness Road Branscomb, California 95417	Landels-Hill Big Creek Reserve Coast Route Big Sur, California 93920
Telephone:	[1] (707) 984-6653	[1] (408) 667--2543

Principal Monitoring and Research Themes:

Archeology
Biological surveys and collections
Comparative ecology
Downcutting response
Ecosystem restoration
Ethnobiology
Exotic species
Integrated food chains
Invertebrate biodiversity
Leaf packs
Redwood biogeography
Sedimentation
Succession
Wildlife population dynamics

Biosphere Reserve: **Carolinian-South Atlantic**

Administrative Units: Multiple Units

Administering Entities: U.S. Department of the Interior, Fish and Wildlife Service, National Park Service; South Carolina Department of Wildlife and Marine Resources; U.S. Department of Commerce, National Oceanic and Atmospheric Administration; University of South Carolina; Little St. Simons Island Foundation; Clemson University; and The Nature Conservancy

Location: 30°50'-35°00'N, 76°00'-81°35'W

Area (hectares): 157,105

Elevation Range: 0 - 20m

Biome: Temperate broad-leaf forests (includes coastal/marine component)

Biogeographic Province: Eastern Forest

Year Designated as Biosphere Reserve: 1986

Contacts:	Dennis M. Allen	Sally Hopkins-Murphy
Address:	Baruch Marine Laboratory Section University of South Carolina P.O. Box 1630 Georgetown, South Carolina 29442 U.S.A.	Non-Game and Heritage Trust South Carolina Wildlife and Marine Resources Department P.O. Box 12559 Charleston, South Carolina 29412 U.S.A.
Telephone:	[1] (803) + 546-3623	[1] (803) + 795-6350
FAX:	[1] (803) + 546-1632	[1] (803) + 762-5007

Principal Monitoring and Research Themes:

Wildlife population dynamics
Rare and endangered species
Fire history and effects
Recreation and tourism
Ecology (long-term)
Geomorphology
Science studies
Acid precipitation
Vegetation studies
Inventory/birds
Exotic species
Sea level changes

Biosphere Reserve: **Cascade Head**

Administrative Unit: Cascade Head Experimental Forest and Scenic-Research Area

Administering Entity: U.S. Department of Agriculture, Forest Service

Location: 45°02'N, 123°59'W

Area (hectares): 7,051

Elevation Range: 0 - 525m

Biome: Temperate rain forests (includes coastal/marine component)

Biogeographic Province: Oregonian

Year Designated as Biosphere Reserve: 1976

__Administrative Officer__

Contact: Sarah Greene

Address:
Forestry Sciences Laboratory
3200 Jefferson Way
Corvallis, Oregon 97331
U.S.A.

Telephone: [1] (503) + 750-7360
FAX: [1] (503) + 750-7329

Principal Monitoring and Research Themes:

Growth and mortality patterns of 130 year-old stands of Sitka spruce, western hemlock, and Douglas fir
Air temperature and precipitation data (56 years)
Monitoring of salt marsh restoration (since 1981)

Biosphere Reserve: **Central California Coast**

Administrative Units: Multiple Units

Administering Entities: U.S. Department of the Interior, U.S. Fish and Wildlife Service and National Park Service; U.S. Department of Commerce, National Oceanic and Atmospheric Administration; Audubon Canyon Ranch; Marin County; Municipal Water District; California Department of Parks and Recreation; University of California; Stanford University; and City of San Francisco

Location: 37°38°N, 122°W

Area (hectares): 857,103

Elevation Range: -2,300 - 730m

Biome: Evergreen sclerophyllous woodland (includes coastal/marine component)

Biogeographic Province: Californian

Year Designated as Biosphere Reserve: 1988

Contact: Sally Fairfax

Address:
College of Natural Resources
University of California, Berkeley
145 Mulford Hall
Berkeley, California 94720
U.S.A.

Telephone: [1] (510) + 642-7627
FAX: [1] (415) + 664-1660

(Information continued on next page)

Information continued:

Biosphere Reserve: **Central California Coast**

Contacts (continued):

Ed Veber Gulf of the Farallons and Cordell Bank National Marine Sanctuaries, NOAA Fort Mason Building 204 San Francisco, California 94123 U.S.A.	Nona Chiariello Jasper Ridge Biological Preserve Stanford University Stanford, CA 94305 U.S.A
Telephone: [1] (415) + 556-3509	[1] (415) + 949-5711
FAX: [1] (415) + 664-1419	

Principal Monitoring and Research Themes:

Biological survey and collections
Ecosystem restoration
Marine/terrestrial interactions
Rare/endangered species
Traditional land use systems
Wildlife population dynamics

Biosphere Reserve: **Central Gulf Coastal Plain**

Administrative Unit: Apalachicola National Estuarine Research Reserve

Administering Entities: Florida Department of Natural Resources and U.S. Department of Commerce, National Oceanographic and Atmospheric Administration

Location: 29°44'N, 84°58'W

Area (hectares): 78,414

Elevation Range: 0.1 - 5m

Biome: Temperate broad-leaf forests
(includes coastal/marine component)

Biogeographic Province: Austroriparian

Year Designated as Biosphere Reserve: 1983

Site Manager

Contact: Woodard W. Miley,II
Address: Apalachicola National Estuarine Research Reserve
261 Seventh Street
Apalachicola, Florida 32320
U.S.A.

Telephone: [1] (904) + 653-8063
FAX: [1] (904) + 653-2297

Principal Monitoring and Research Themes:
Long-term monitoring of physical, chemical and biological parameters
Threatened and endangered species
Environmental education activities
Management-oriented research

Biosphere Reserve:	**Central Plains**
Administrative Unit:	Central Plains Experimental Range
Administering Entity:	U.S. Department of Agriculture, Agricultural Research Service
Location:	40°50'N, 104°45'W
Area (hectares):	6,210
Elevation Range:	1,600 - 1,690m
Biome:	Temperate grasslands
Biogeographic Province:	Grasslands

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	Gary W. Frasier	Mary Ashby
Address:	Agricultural Research Service Rangeland Resources Research Unit 1701 Center Avenue Ft. Collins, Colorado 80526 U.S.A.	Central Plains Experimental Range
Telephone:	[1] (303) + 498-4230	[1] (303) + 897-2226
FAX:	[1] (303) + 482-2909	

Principal Monitoring and Research Themes:

Vegetation data
Land use history
Inventory-vascular plants
Climate
Rangeland management

Biosphere Reserve: **Champlain-Adirondack**

Administrative Units: Adirondack Park, Green Mountain National Forest, Mount Mansfield State Natural Area, Camel's Hump State Natural Area

Administering Entities: Adirondack Park Agency (New York State); U.S. Department of Agriculture, Forest Service; Vermont Agency of Natural Resources; New York State Department of Environmental Conservation; University of Vermont

Location: 43°00'-45°00'N, 73°15'-73°30'W

Area (hectares): 3,990,000

Elevation Range: 29 - 1,629m

Biome: Temperate broad-leaf forests

Biogeographic Province: Lake Forest

Year Designated as Biosphere Reserve: 1989

	New York Area	Vermont Area
Contact:	Edward J. Hood	Rose Paul
Address:	Adirondack Park Agency P.O. Box 99 Ray Brook, New York 12977 U.S.A.	Agency of Natural Resources 103 South Main Street Center Building Waterbury, Vermont 05676 U.S.A.
Telephone:	[1] (518) + 891-4050	[1] (802) + 244-1137
FAX:	[1] (518) + 891-3938	[1] (802) + 244-1102

Principal Monitoring and Research Themes:

Atmospheric pollutants
Water quality
Comparative ecology
Geographic information systems
Forest research/silviculture
Watershed management

Biosphere Reserve: **Channel Islands**

Administrative Units: Channel Islands National Marine Sanctuary and Channel Islands National Park

Administrative Entities: U.S. Department of Commerce, National Oceanic and Atmospheric Administration; and U.S. Department of the Interior, National Park Service

Location: 33°27'-34°04'N, 119°01'-120°26'W

Area (hectares): 479,625

Elevation Range: 0 - 741m

Biome: Evergreen sclerophyllous woodlands (includes coastal/marine component)

Biogeographic Province: Californian

Year Designated as a Biosphere Reserve: 1976

	Marine Sanctuary	National Park
Contact:	Stephen C. Jameson, Manager	Kate Faulkner
Address:	Channel Islands National Marine Sanctuary 735 State Street Santa Barbara, California 93101 U.S.A.	Channel Islands National Park 1901 Spinnaker Drive Ventura, Calif. 93001 U.S.A.
Telephone:	[1] (805) + 966-7107	[1] (805) + 658-5700
FAX:	[1] (805) + 568-1582	[1] (805) + 658-5799

Principal Monitoring and Research Themes:

Water pollutants
Pests and diseases
Restoration ecology
Cultural anthropology
Rare/endangered species
Biological survey and collections
Ecology of marine and island communities

Biosphere Reserve:	**Coram**
Administrative Unit:	Coram Experimental Forest
Administering Entity:	U.S. Department of Agriculture, Forest Service
Location:	48°22'-26'N, 113°58'-114°00'W
Area (hectares):	3,010
Elevation Range:	1067 - 1920m
Biome:	Mixed mountain systems with complex zonation
Biogeographic Province:	Rocky Mountains

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	Raymond Shearer	Jack A. Schmidt

Address:

USDA Forest Service
Intermountain Research Station
Forestry Sciences Laboratory
800 East Beckwith
P.O. Box 8089
Missoula, Montana 59807
U.S.A.

Telephone: [1] (406) + 721-5694, ext. 138
FAX: [1] (406) + 543-2663
E-Mail: USFS(DG): R.Shearer:S22L01A
USFS(DG): J.Schmidt:S22L01A

Principal Monitoring and Research Themes:

Plant and animal succession
Ecology and management of Larix
Influence of harvest on succession
Climatic factors, soil water, and streamflow
Influence of site treatments on succession
Influence of thinning and cultural treatments on development of plant species

Biosphere Reserve: **Denali**

Administrative Unit: Denali National Park and Preserve

Administering Entity: U.S. Department of the Interior, National Park Service

Location: 63°20'N, 150°30'W

Area (hectares): 2,441,295

Elevation Range: 122 - 6,194m

Biome: Temperate needle-leaf forests

Biogeographic Province: Yukon Taiga

Year Designated as Biosphere Reserve: 1974

	Administrative Officer	Site Manager
Contact:	Gordon Olson	Russell W. Berry, Jr.
Address:	Denali National Park and Preserve Denali Park, Alaska 99755 U.S.A.	Denali National Park and Preserve Denali Park, Alaska 99755 U.S.A.
Telephone:	[1] (907) + 683-2294	[1] (907) + 683-2294
FAX:	[1] (907) + 683-2720	[1] (907) + 683-2720

Principal Monitoring and Research Themes:

Large mammal ecology
Vegetation ecology
Air quality
Water quality
Geology and soils
Archaeology
Subsistence use

Biosphere Reserve: **Desert**

Administrative Unit: Desert Experimental Range

Administering Entity: U.S. Department of Agriculture, Forest Service, Intermountain Research Station

Location: 38°40'N, 113°45'W

Area (hectares): 22,513

Elevation Range: 1,547 - 2,565

Biome: Cold-winter desert

Biogeographic Province: Great Basin

Year Designated as Biosphere Reserve: 1976

Administrative Officer

Contact: E. Durant McArthur

Address:
U.S. Forest Service
Shrub Sciences Laboratory
735 N. 500 E.
Provo, Utah 84606
U.S.A.

Telephone: [1] (801) + 377-5717
FAX: [1] (801) + 375-6968

Principal Monitoring and Research Themes:

- Vascular plant inventory
- Vegetation data
- Vegetation map
- Ecological succession
- Ecosystem modeling

Biosphere Reserve: **Everglades**

Administrative Units: Everglades National Park and
Fort Jefferson National Monument

Administering Entity: U.S. Department of the Interior,
National Park Service

Location: 24°50'-25°55'N, 80°20'-81°30'W

Area (hectares): 592,313

Elevation Range: 0 - 2m

Biome: Tropical monsoon forests
(includes coastal/marine component)

Biogeographic Province: Everglades

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	Michael Soukup	Richard Ring, Superintendent

Address:
Everglades National Park
P.O. Box 279
Homestead, Florida 33030
U.S.A.

Telephone: [1] (305) + 247-6211
FAX: [1] (305) + 247-6211, ext. 204

Principal Monitoring and Research Themes:

Surface hydrology
Water quality
Marine ecosystems
Vertebrate ecology
Ecosystem restoration

Biosphere Reserve: **Fraser**

Administrative Unit: Fraser Experimental Forest

Administering Entity: U.S. Department of Agriculture

Location: 39°54'N, 105°53'W

Area (hectares): 9,328

Elevation Range: 2,660 - 3,904m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Rocky Mountains

Year Designated as Biosphere Reserve: 1976

Site Manager

Contact: Charles Troendle

Address:
Fraser Experimental Forest
Rocky Mountain Forest and Range
  Experiment Station
240 West Prospect St.
Fort Collins, Colorado 80521
U.S.A.

Telephone: [1] (303) + 726-5220
FAX: [1] (303) + 498-1010

Principal Monitoring and Research Themes:

- Water quality
- Nutrient cycling
- Animal habitat

Biosphere Reserve:	**Glacier**
Administrative Unit:	Glacier National Park
Administering Entity:	U.S. Department of the Interior, National Park Service
Location:	48°15'-49°00'N, 113°15'-114°30'W
Area (hectares):	410,202
Elevation Range:	972 - 3,185m
Biome:	Mixed mountain systems with complex zonation
Biogeographic Province:	Rocky Mountains

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	Brace Hayden	H. Gilbert Lusk, Superintendent

Address:

Glacier National Park
West Glacier, Montana 59936
U.S.A.

Telephone: [1] (406) + 888-5441
FAX: [1] (406) + 888-5581

Principal Monitoring and Research Themes:

Global climate change
Ecosystem modeling
Rare/endangered species
Fire history and effects
Limnology/hydrobiology

Biosphere Reserve: **Glacier Bay-Admiralty Island**

Administrative Units: Glacier Bay National Park and Admiralty Island National Monument

Administering Entities: U.S. Department of the Interior, National Park Service; and U.S. Department of Agriculture, Forest Service

Location: 57°02'-58°11'N, 132°25'W, 58°10'-59°15'N, 135°15'-138°40'W

Area (hectares): 1,714,851

Elevation Range: 0 - 4,666m

Biome: Temperate needle-leaf forests (includes coastal/marine component)

Biogeographic Province: Sitkan

Year Designated as Biosphere Reserve: 1986

	National Park	National Monument
Contact:	Marvin Jensen	Vivian Hoffman
Address:	Glacier Bay National Park Gustavus, Alaska 99826 U.S.A.	Admiralty Island National Monument 8465 Old Dairy Rd. Juneau, Alaska 99801 U.S.A.
Telephone:	[1] (907) + 697-2232	[1] (907) + 586-8790
FAX:	[1] (907) + 697-2410	[1] (907) + 586-8795

Principal Monitoring and Research Themes:

Glacial geology
Ecological succession

Biosphere Reserve:	**Guanica**
Administrative Unit:	Guanica Commonwealth Forest Reserve
Administering Entity:	Puerto Rico Department of Natural Resources
Location:	17°55'N, 67°05'W
Area (hectares):	4,006
Elevation Range:	0 - 228m
Biome:	Mixed island systems (includes coastal/marine component)
Biogeographic Province:	Greater Antillean

Year Designated as Biosphere Reserve: 1981

Site Manager

Contact: Miguel Canals Mora

Address:

Department of Natural Resources
Forest Service Area
P.O. Box 5887-Puerta de Tierra
San Juan, Puerto Rico 00906
U.S.A.

Telephone: [1] (809) + 384-7049

Principal Monitoring and Research Themes:

Forest succession

Biosphere Reserve: **H.J. Andrews**

Administrative Unit: H.J. Andrews Experimental Forest

Administering Entity: U.S. Department of Agriculture,
Forest Service

Location: 44°15'N, 122°10'W

Area (hectares): 6,100

Elevation Range: 435 - 1,631

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Sierra-Cascade

Year Designated as Biosphere Reserve: 1976

Site Manager

Contact: Arthur McKee

Address:
H.J. Andrews Experimental Forest
P.O. Box 300
Blue River, Oregon 97413
U.S.A.

Telephone: [1] (503) + 822-3914
FAX: [1] (502) + 750-7329

Principal Monitoring and Research Themes:

Water quality
Stream ecology
Ecological succession

Biosphere Reserve:	**Hawaiian Islands**
Administrative Units:	Haleakala National Park and Hawaii Volcanoes National Park
Administering Entity:	U.S. Department of the Interior, National Park Service
Location:	19°11'-19°33'N, 155°01'-155°39'W; 20°39'-20°47'N, 156°02'-156°16'W
Area (hectares):	99,545
Elevation Range:	0 - 4,170m
Biome:	Mixed island systems (includes coastal/marine component)
Biogeographic Province:	Hawaiian

Year Designated as Biosphere Reserve: 1980

	Administrative Officer	Site Manager
Contact:	Lloyd Loope	Hugo H. Huntzinger, Superintendent
Address:	Haleakala National Park P.O. Box 369 Makawao, Hawaii 96768 U.S.A.	Hawaii Volcanoes National Park P.O. Box 52 Hawaii Volcanoes, Hawaii 96718-0052 U.S.A.
Telephone:	[1] (808) + 572-1983	[1] (808) + 967-7311
FAX:	[1] (808) + 572-1304	[1] (808) + 967-8186

Principal Monitoring and Research Themes:

Exotic species
Ecosystem restoration
Rare/endangered species
Permanent plots, vegetation
Inventory - invertebrates

Biosphere Reserve: **Hubbard Brook**

Administrative Unit: Hubbard Brook Experimental Forest

Administering Entity: U.S. Department of Agriculture, Forest Service

Location: 43°56'N, 71°45'W

Area (hectares): 3,176

Elevation Range: 222 - 1,015m

Biome: Temperate broad-leaf forests

Biogeographic Province: Lake Forest

Year Designated as a Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	Christopher Eagar	C. Wayne Martin
Address:	USDA Forest Service P.O. Box 640 Durham, New Hampshire 03824 U.S.A.	Hubbard Brook Experimental Forest RFD #1 Box 779 Campton, New Hampshire 03223 U.S.A.
Telephone:	[1] (603) + 868-5576	[1] (603) + 726-8902
FAX:	[1] (603) + 868-1538	[1] (603) + 868-1538
E-Mail:	BITNET:cfederer@umdars	BITNET:cfederer@umdars

Principal Monitoring and Research Themes:

Hydrometeorological monitoring
Precipitation and streamwater chemistry
Forest succession
Biogeochemical cycling

Biosphere Reserve: **Isle Royale**

Administrative Unit: Isle Royale National Park

Administering Entity: U.S. Department of the Interior,
National Park Service

Location: 47°48'-48°16'N, 88°15'-89°20'W

Area (hectares): 215,740

Elevation Range: 184 - 425m

Biome: Lake systems
(includes coastal/marine component)

Biogeographic Province: Great Lakes

Year Designated as Biosphere Reserve: 1980

Site Manager

Contact: Linda Witkowski

Address:
Isle Royale National Park
87 North Ripley St.
Houghton, Michigan 49931
U.S.A.

Telephone:
[1] (906) + 482-0986
[1] (906) + 337-4991

FAX:
[1] (906) + 482-8753
[1] (906) + 337-4984

Principal Monitoring and Research Themes:

Large mammal research
Vegetation studies
Acid precipitation

Biosphere Reserve: **Jornada**

Administrative Unit: Jornada Experimental Range

Administering Entity: U.S. Department of Agriculture,
Agricultural Research Service

Location: 32°37'N, 106°45'W

Area (hectares): 78,297

Elevation Range: 1,260 - 2,830m

Biome: Warm deserts and semideserts

Biogeographic Province: Chihuahuan

Year Designated as Biosphere Reserve: 1976

Administrative Officer

Contact: Kris Havstad

Address:
P.O. Box 30003
New Mexico State University
Las Cruces, New Mexico 88003-0003
U.S.A.

Telephone: [1] (505) + 646-4842
FAX: [1] (505) + 646-5889

Principal Monitoring and Research Themes:

Agricultural research
Rangeland management
Ecosystem restoration
Ecological succession
Ecological monitoring

Biosphere Reserve: **Konza Prairie**

Administrative Unit: Konza Prairie Research Natural Area

Administering Entity: The Nature Conservancy

Location: 39°03'-39°08'N, 96°31'-96°37'W

Area (hectares): 3,487

Elevation Range: 320 - 444m

Biome: Temperate grasslands

Biogeographic Province: Grasslands

Year Designated as Biosphere Reserve: 1979

Administrative Officer

Contact: Christopher Smith

Address:
Kansas State University
Division of Biology,
Ackert Hall
Manhattan, Kansas 66506
U.S.A.

Telephone: [1] (913) + 532-6656
FAX: [1] (913) + 532-6653

Principal Monitoring and Research Themes:

Restoration ecology
Ecological succession

Biosphere Reserve:	**Land Between The Lakes**
Administrative Unit:	Land Between The Lakes
Administering Entity:	Tennessee Valley Authority
Location:	36°47'N, 88°03'W
Area (hectares):	1,560,000
Elevation Range:	108 - 201m
Biome:	Temperate broad-leaf forests
Biogeographic Province:	Eastern Forest

Year Designated as Biosphere Reserve: 1991

	Administrative Officer	Site Manager
Contact:	Thomas D. Forsythe	Ann W. Wright, Superintendent

Address:

Land Between The Lakes
100 Van Morgan Drive
Golden Pond, Kentucky 42211
U.S.A.

Telephone: [1] (502) + 924-5602
FAX: [1] (502) + 924-1399

Principal Monitoring and Research Themes:

Wildlife population dynamics
Biological survey and collections
Limnology, hydrobiology
Forest research/silviculture
Atmospheric pollutants

Biosphere Reserve:	**Luquillo**
Administrative Unit:	Luquillo Experimental Service
Administering Entity:	U.S. Department of Agriculture, Forest Service
Location:	18°21'N, 65°45'W
Area (hectares):	11,340
Elevation Range:	150 - 1,080m
Biome:	Mixed island systems
Biogeographic Province:	Greater Antillean

Year Designated as Biosphere Reserve: 1976

	Administrative Officer
Contact:	Ariel Lugo
Address:	Institute of Tropical Forestry USDA Forest Service RWU 1152, Call Box 25000 Rio Piedras, Puerto Rico 00928-2500 U.S.A.
Telephone:	[1] (809) + 766-5335
FAX:	[1] (809) + 766-6302
E-Mail:	BITNET: a_gillespie@uprenet

Principal Monitoring and Research Themes:

Ecosystem dynamics
Forest recreation
Watershed management
Wildlife management
Tree production

Biosphere Reserve: **Mammoth Cave Area**

Administrative Unit: Mammoth Cave National Park

Administering Entity: U.S. Department of the Interior, National Park Service

Location: 37°07'-37°17'N, 86°00'-86°17'W

Area (hectares): 83,377

Elevation Range: 180 - 231m

Biome: Temperate broad-leaf forest

Biogeographic Province: Eastern Forest

Year Designated as Biosphere Reserve: 1990

	Administrative Officer	Site Manager
Contact:	Jeff Bradybaugh	David Mihalic, Superintendent
Address:	Mammoth Cave National Park Mammoth Cave, Kentucky 42259 U.S.A.	
Telephone:	[1] (502) + 758-2238	[1] (502) + 758-2251
FAX:	[1] (502) + 758-2349	[1] (502) + 758-2349

Principal Monitoring and Research Themes:

Groundwater hydrology
Water quality
Agricultural effects of adjacent land use
Freshwater ecosystems
Atmospheric pollutants
Sustainable economic development

Biosphere Reserve: **Mojave and Colorado Deserts**

Administrative Units: Multiple units

Administering Entities: California Department of Parks and Recreation; U.S. Department of the Interior, National Park Service and Bureau of Land Management; U.S. Department of Agriculture, Forest Service; and the University of California

Location: 33°10'N, 116°20'W; 35°39'-37°05'N, 116°22'-117°37'W; 34°N, 115°45'W; 33°30'N, 116°24'W

Area (hectares): 1,297,264

Elevation Range: -86 - 3,368m

Biome: Warm deserts and semideserts

Biogeographic Province: Sonoran

Year Designated as Biosphere Reserve: 1984

	Administrative Officer	Site Manager
Contact:	David H. Van Cleve	Edwin Rothfuss
Address:	Anza-Borrego District Box 299 Borrego Springs, California 92004 U.S.A.	Death Valley National Monument Death Valley, California 92328 U.S.A.
Telephone:	[1] (619) + 767-5311	[1] (619) + 786-2331
FAX:	[1] (619) + 767-3427	[1] (619) + 786-2344

Principal Monitoring and Research Themes:

- Inventory-mammals
- Vegetation mapping
- Air quality
- Exotic species
- Cultural anthropology
- Desert tortoise biology
- Wilderness area establishment
- Wildlife population dynamics
- Rare/endangered species
- Mining and minerals management

Biosphere Reserve:	**New Jersey Pinelands**
Administrative Unit:	Pinelands National Reserve
Administering Entity:	Pinelands Commission (complex ownership)
Location:	39°45'N, 74°45'W
Area (hectares):	445,300
Elevation Range:	0 - 63m
Biome:	Temperate broad-leaf forests (includes coastal/marine component)
Biogeographic Province:	Eastern Forest

Year Designated as Biosphere Reserve: 1988

Administrative Officer

Contact: Terrence D. Moore

Address:

Pinelands Commission
Pinelands National Reserve
P.O. Box 7
New Lisbon, New Jersey 08064
U.S.A.

Telephone: [1] (609) + 894-9342
FAX: [1] (609) + 894-0026

Principal Monitoring and Research Themes:

Water quality
Landscape integrity
Wildlife and vegetation management
Data management

Biosphere Reserve:	**Niwot Ridge**
Administrative Unit:	Niwot Ridge
Administering Entity:	University of Colorado
Location:	40°00'N, 105°30'W
Area (hectares):	1,200
Elevation Range:	2,866 - 3,780m
Biome:	Mixed mountain systems with complex zonation
Biogeographic Province:	Rocky Mountains

Year Designated as Biosphere Reserve: 1979

Administrative Officer

Contact: William Bowman

Address:
University of Colorado
1560 Thirtieth Street
Campus Box 450
Boulder, Colorado 80309-0450
U.S.A.

Telephone: [1] (303) + 492-8841
FAX: [1] (303) + 492-8699

Principal Monitoring and Research Themes:

Long term alpine tundra ecological processes
Global climate change effects on alpine ecosystems
Geomorphology

Biosphere Reserve:	**Noatak**
Administrative Units:	Gates of the Arctic National Park and Noatak National Preserve
Administering Entity:	U.S. Department of the Interior, National Park Service
Location:	68°N, 160°W
Area (hectares):	3,035,200
Elevation Range:	30 - 1,679m
Biome:	Tundra
Biogeographic Province:	Alaska Tundra

Year Designated as Biosphere Reserve: 1976

Administrative Officer

Contact: Bob Gerhard

Address:

National Park Service
Box 1029
Kotzebue, Alaska 99752
U.S.A.

Telephone: [1] (907) + 442-3890
FAX: [1] (907) + 442-3482

Principal Monitoring and Research Themes:

Wildlife population dynamics
Cultural anthropology
Biological surveys and collections

Biosphere Reserve: **Olympic**

Administrative Unit: Olympic National Park

Administering Entity: U.S. Department of the Interior, National Park Service

Location: 47°29'-48°11'N, 123°07'-124°42'W

Area (hectares): 363,379

Elevation Range: 0 - 2,428m

Biome: Temperate rain forests (includes coastal/marine component)

Biogeographic Province: Oregonian

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	John Aho	Maureen Finnerty, Superintendent

Address:

Olympic National Park
600 East Park Avenue
Port Angeles, Washington 98362-6798
U.S.A.

Telephone:	[1] (206) + 452-4501, ext.245	[1] (206) + 452-4501
FAX:	[1] (206) + 452-0335	[1] (206) + 452-0335

Principal Monitoring and Research Themes:

Biogeochemical cycles
Ecological succession
Acid deposition
Atmospheric pollutants
Wildlife population dynamics
Visitor use
Global climate change
Threatened/endangered species

Biosphere Reserve:	**Organ Pipe Cactus**
Administrative Unit:	Organ Pipe Cactus National Monument
Administering Entity:	U.S. Department of the Interior, National Park Service
Location:	32°00'N, 112°50'W
Area (hectares):	133,278
Elevation Range:	335 - 1,472m
Biome:	Warm deserts and semideserts
Biogeographic Province:	Sonoran

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	James J. Barnett	Harold J. Smith, Superintendent

Address:

Organ Pipe Cactus
Route 1, Box 100
Ajo, Arizona 85321
U.S.A.

Telephone: [1] (602) + 387-6849
FAX: [1] (602) + 387-7662

Principal Monitoring and Research Themes:

Comparative ecology
Rare/endangered species
Risk assessment
Ecosystem restoration
Watershed management

Biosphere Reserve: **Rocky Mountain**

Administrative Unit: Rocky Mountain National Park

Administering Entity: U.S. Department of the Interior,
National Park Service

Location: 40°10'-40°33'N, 105°29'-105°55'W

Area (hectares): 106,710

Elevation Range: 2,328 - 4,345m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Rocky Mountains

Year Designated as Biosphere Reserve: 1976

Site Manager

Contact: Homer L. Rouse
Superintendent

Address: Rocky Mountain National Park
Estes Park, Colorado 80517
U.S.A.

Telephone: [1] (303) + 586-2371
FAX: [1] (303) + 586-4702

Principal Monitoring and Research Themes:

Ungulate ecology and management
High altitude revegetation
Global change
Acid precipitation effects
Aquatic ecology and management

Biosphere Reserve: **San Dimas**

Administrative Unit: San Dimas Experimental Forest

Administering Entity: U. S. Department of Agriculture,
Forest Service

Location: 34°12'N, 117°46'W

Area (hectares): 6,947

Elevation Range: 381 - 1,615m

Biome: Evergreen sclerophyllous woodland

Biogeographic Province: Californian

Year Designated as Biosphere Reserve: 1976

Site Manager

Contact: Sue Connard

Address:

Forest Fire Laboratory
4955 Canyon Crest Drive
Riverside, California 92507
U.S.A.

Telephone: [1] (714) + 276-6570
FAX: [1] (714) + 276-6426

Principal Monitoring and Research Themes:

Watershed processes
Fire effects on ecosystems
Evolution research
Global climate change
Long term monitoring of hydrology,
stream chemistry and climate parameters

Biosphere Reserve: **San Joaquin**

Administrative Unit: San Joaquin Experimental Range

Administrative Entity: U.S. Department of Agriculture, Agricultural Research Service

Location: 37°05'N, 119°43'W

Area (hectares): 1,832

Elevation Range: 213 - 518m

Biome: Evergreen sclerophyllous woodland

Biogeographic Province: Californian

Year Designated as a Biosphere Reserve: 1976

Site Manager

Contact: Gary Ritinhower

Address:
San Joaquin
California State University
24075 Highway 41
Coarsegold, California 93614
U.S.A.

Telephone: [1] (209) + 278-2011
FAX: [1] (209) + 278-6998

Principal Monitoring and Research Themes:

Biosphere Reserve: **Sequoia and Kings Canyon**

Administrative Units: Sequoia and Kings Canyon National Parks

Administering Entity: U.S. Department of the Interior,
National Park Service

Location: 36°45'N, 118°30'W

Area (hectares): 343,000

Elevation Range: 336 - 4,418m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Sierra-Cascade

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	Jeff Manley	J. Thomas Ritter Superintendent

Address:

Sequoia and Kings Canyon National Parks
Three Rivers, California 93271
U.S.A.

Telephone:	[1] (209) + 565-3125	[1] (209) + 565-3341
FAX:	[1] (209) + 565-3497	[1] (209) + 565-3497

Principal Monitoring and Research Themes:

Acidic deposition/atmospheric pollutants
Biological survey and collections
Comparative ecological research
Fire history and effects
Global change research

Biosphere Reserve: **South Atlantic Coastal Plain**

Administrative Unit: Congaree Swamp National Monument

Administering Entity: U.S. Department of the Interior,
National Park Service

Location: 33o°45'N; 80°47'W, 39°45'N; 45'W

Area (hectares): 8,984

Elevation Range: 0 - 100m

Biome: Temperate broad-leaf forests

Biogeographic Province: Eastern Forest and Austroriparian

Year Designated as Biosphere Reserve: 1983

	Administrative Officer	Site Manager
Contact:	Rick Clark Resource Management Specialist	Robert S. McDaniel, Superintendent

Address:
Congaree Swamp National Monument
200 Caroline Sims Road
Hopkins, South Carolina 29061
U.S.A.

Telephone: [1] (803) + 776-4396
FAX: [1] (803) + 783-4241

Principal Monitoring and Research Themes:

Forest dynamics - regeneration, recruitment, and succession
Hydrology - influences on vegetation distribution
Atmospheric pollutants and acid deposition
Nutrient cycles-carbon and nitrogen
Global environmental change

Biosphere Reserve: **Southern Appalachian**

Administrative Units: Multiple units

Administering Entities: U.S. Department of Agriculture, Forest Service; U.S. Department of the Interior, National Park Service; U.S. Department of Energy (contractor: Martin Marietta, Inc.); North Carolina Department of Natural Resources; Grandfather Mountain, Inc.

Location: 35°36°N, 83°84°W

Area (hectares): 247,028

Elevation Range: 226 - 2,025m

Biome: Temperate broad-leaf forests

Biogeographic Province: Eastern Forest

Year Designated as Biosphere Reserve: 1988

Contact: Hubert Hinote
Address: Southern Appalachian MAB Cooperative
1314 Cherokee Orchard Road
Great Smoky Mountain National Park
Gatlinburg, Tennessee 37738 U.S.A.

Telephone: [1] (615) + 436-7120
FAX: [1] (615) + 436-5598

Principal Monitoring and Research Themes:

Air quality
Exotic species
Human resources
Geosciences
Global environment
Forest health
Biodiversity
Fresh water initiatives
Threatened/endangered species
Long-term ecosystem processes
Landscape studies
Environmental biotechnology
Environmental assessment and education
Geographic information systems
Sustainable development issues
Resource management

Biosphere Reserve: **Stanislaus-Tuolumne**

Administrative Unit: Stanislaus-Tuolumne Experimental Forest

Administering Entity: U.S. Department of Agriculture,
Forest Service

Location: 38°03'N, 119°57'W

Area (hectares): 607

Elevation Range: 1,585 - 1,951m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Sierra-Cascade

Year Designated as Biosphere Reserve: 1976

Site Manager

Contact: Janet Wold

Address:
Stanislaus National Forest
19777 Greenley Road
Sonora, California 95370
U.S.A.

Telephone: [1] (209) + 532-3671
FAX: [1] (209) + 533-1890
E-Mail: USFS(DG): R05F16A

Principal Monitoring and Research Themes:

Climate
Insects

Biosphere Reserve: **Three Sisters**

Administrative Unit: Three Sisters Wilderness

Administering Entity: U.S. Department of Agriculture,
Forest Service

Location: 44°N, 121°50'W

Area (hectares): 80,900

Elevation Range: 600 - 3,407m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Sierra-Cascade

Year Designated as Biosphere Reserve: 1976

Site Manager

Contact: Darrel Kenops

Address:
Willamette National Forest
P.O. Box 10607
Eugene, Oregon 97440-2607
U.S.A.

Telephone: [1] (503) + 465-6533
FAX: [1] (503) + 465-6717
E-Mail: USFS(DG): R06F18A

Principal Monitoring and Research Themes:

- Vegetation
- Geology

Biosphere Reserve:	**University of Michigan**
Administrative Unit:	University of Michigan Biological Station
Administering Entity:	University of Michigan
Location:	45°34'N, 84°40'W
Area (hectares):	4,048
Elevation Range:	183 - 280m
Biome:	Temperate broad-leaf forests
Biogeographic Province:	Lake Forest

Year Designated as Biosphere Reserve: 1979

Site Manager

Contact:

James A. Teeri,
Director

Address:

University of Michigan Biological Station
111 Natural Science Building
Ann Arbor, Michigan 48109-1048
U.S.A.

Telephone: [1] (313) + 763-4461
FAX: [1] (313) + 747-1952

Principal Monitoring and Research Themes:

Ecological succession
Limnology, hydrobiology
Biological survey and collections
Comparative ecological research
Rare/endangered species

Biosphere Reserve:	**Virgin Islands**
Administrative Unit:	Virgin Islands National Park
Administering Entity:	U.S. Department of the Interior, National Park Service
Location:	18°21'N, 64°44'W
Area (hectares):	6,127
Elevation Range:	0 - 389m
Biome:	Mixed island systems (includes coastal/marine component)
Biogeographic Province:	Lesser Antillean

Year Designated as Biosphere Reserve: 1976

	Administrative Officer	Site Manager
Contact:	Caroline A. Rogers	Mark A. Koenings Superintendent
Address:	Virgin Islands National Park P.O. Box 710 St. John, United States Virgin Islands 00830 U.S.A.	Virgin Islands National Park 6010 Estate Nazareth, #10 St. Thomas, United States Virgin Islands 00802-3406 U.S.A.

Telephone: [1] (809) + 776-4704
FAX: [1] (809) + 776-4714

Principal Monitoring and Research Themes:

Marine ecosystems
Watershed management

Biosphere Reserve: **Virginia Coast**

Administrative Unit: Virginia Coast Reserve

Administering Entity: The Nature Conservancy

Location: 37°05'-37°34'N, 75°56'-75°37'W

Area (hectares): 13,511

Elevation Range: 0 - 10m

Biome: Temperate broad-leaf forests
(includes coastal/marine component)

Biogeographic Province: Eastern Forest

Year Designated as Biosphere Reserve: 1979

	Administrative Officer	Site Manager
Contact:	John M. Hall	Barry R. Truitt

Address:
The Nature Conservancy
Brownsville
Nassawadox, Virginia 23413
U.S.A.

Telephone: [1] (804) + 442-3049
FAX: [1] (804) + 442-5418

Principal Monitoring and Research Themes:

Biogeochemical cycles
Effects of sea level rise
Geomorphological research
Ecological succession
Ecosystem modeling

Biosphere Reserve: **Yellowstone**

Administrative Unit: Yellowstone National Park

Administering Entity: U.S. Department of the Interior,
National Park Service

Location: 44°08'-45°07'N, 109°10'-111°10'W

Area (hectares): 898,349

Elevation Range: 1,710 - 3,463m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Rocky Mountains

Year Designated as Biosphere Reserve: 1976

Site Manager

Contact: Robert Barbee,
Superintendent

Address:
P.O. Box 168
Yellowstone National Park,
Wyoming 82190
U.S.A.

Telephone: [1] (307) + 344-2002
FAX: [1] (307) + 344-2323

Principal Monitoring and Research Themes:

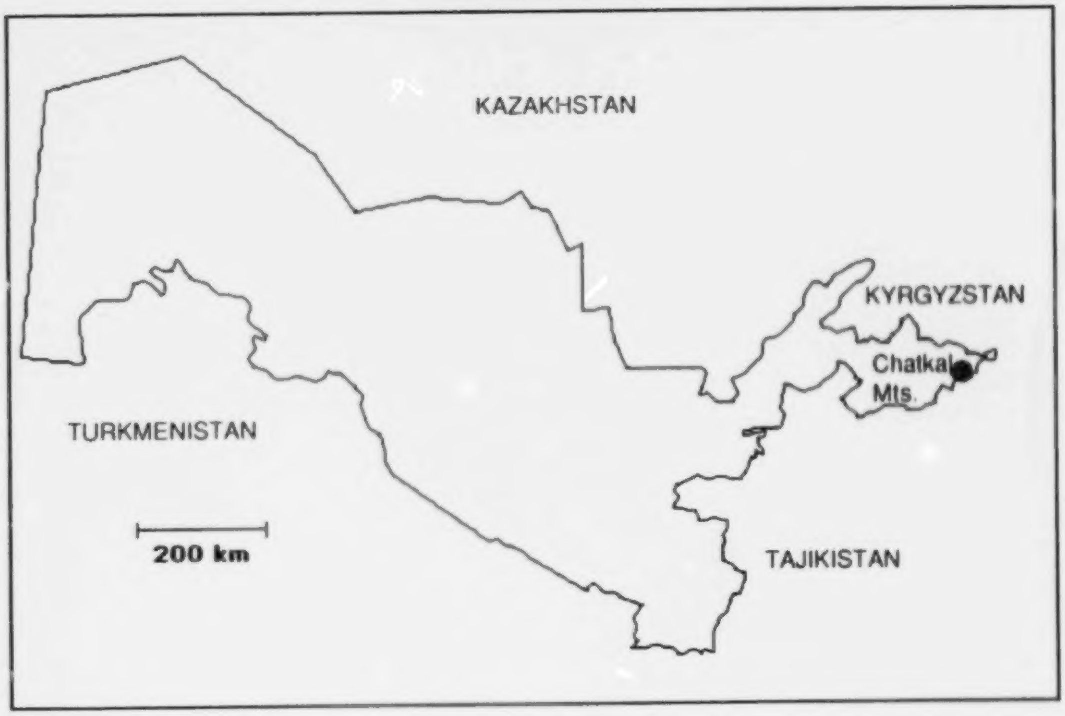
Wildlife/rangeland ecology
Geothermal, earthquake, volcanic systems
Endangered species restoration
Greater Yellowstone ecosystem
Fire ecology

No Named National Contact for Biosphere Reserves

See Biosphere Reserve Manager

BIOSPHERE RESERVE LOCATION MAP

UZBEKISTAN


KAZAKHSTAN
KYRGYZSTAN
Chatkal Mts.
TURKMENISTAN
200 km
TAJIKISTAN

Biosphere Reserve: **Chatkal Mountains**
(see also Kyrgyzstan)

Administrative Units: Chatkal'skiy Zapovednik

Administering Entities: State government

Location: 41°08'N, 69°59'E

Area (hectares): 47,500

Elevation Range: 1,110 - 4,000m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Pamir-Tian-Shan Highlands

Year Designated as Biosphere Reserve: 1978

Administrative Officer

Contact:

Address:

Chatkal'skiy Zapovednik
Tashkent Region
Verkhnechirchiskiy District
Parkent Village
Uzbekistan

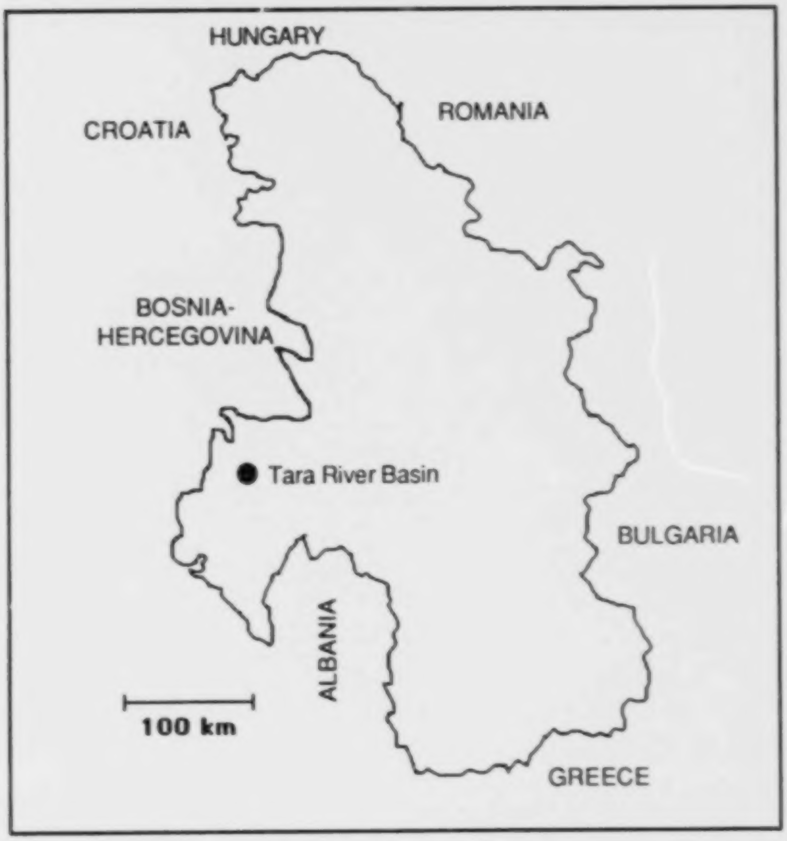
Principal Monitoring and Research Themes:

Floristic and faunal inventory
Reforestation research
Ecology of woody plants/commercial species
Rare fauna ecology

No National Contact Named for Biosphere Reserves.

See Biosphere Reserve Manager

BIOSPHERE RESERVE LOCATION MAP


HUNGARY
CROATIA
ROMANIA
BOSNIA-HERCEGOVINA
Tara River Basin
BULGARIA
ALBANIA
100 km
GREECE

* The United States does not recognize Serbia/Montenegro, nor does it accept Serbia/Montenegro (which calls itself the "Federal Republic of Yugoslavia") as the sole successor of the Socialist Federal Republic of Yugoslavia

Biosphere Reserve: **Tara River Basin**

Administrative Units: Multiple Units in the Tara River Basin Ecological Reserve (includes two national parks and two virgin forest reserves)

Administering Entity: Institute for the Protection of Nature (State government of Montenegro)

Location: 42°32'N, 18°50'-19°45'E

Area (hectares): 200,000

Elevation Range: 433 - 2,522m

Biome: Mixed mountain systems with complex zonation

Biogeographic Province: Balkan Highlands

Year Designated as Biosphere Reserve: 1976

Administrative Officer

Contact:

Address:

Institute for the Protection of Nature
P.O. Box 2
Titograd 81001
Montenegro
Yugoslavia*

Telephone: [38] (81) +

Principal Monitoring and Research Themes:

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* The United States does not recognize Serbia/Montenegro, nor does it accept Serbia/Montenegro (which calls itself the "Federal Republic of Yugoslavia") as the sole successor of the Socialist Federal Republic of Yugoslavia

EuroMAB Biosphere Reserve Data Bases

Basic Resource Information

Biological Inventory	(7)
Ecological Monitoring	(10)
Resource Maps	(6)
Historical Records	(6)

Research Topics

Ecosystems Cycles and Processes	(7)
Species Populations	(3)
Pollution	(3)
Human Systems	(7)
Management Practices	(10)

Site Support

Scientific Infrastructure	(6)
Monitoring and Research Facilities	(6)
Permanent Research Staff	

BASIC RESOURCE INFORMATION

X - EXISTING PROGRAM   # - NUMBER OF YEARS OF RECORDS   🍎 - PRIORITY AREA

	BIOLOGICAL INVENTORY							ECOLOGICAL MONITORING										RESOURCE MAPS					
	INVERTEBRATES	MAMMALS	BIRDS	NONVASCULAR PLANTS	VASCULAR PLANTS	VERTEBRATES OTHER THAN MAMMALS	BIOLOGICAL SURVEY AND COLLECTIONS	AIR QUALITY	CLIMATE	FRESHWATER ECOSYSTEMS	GROUNDWATER HYDROLOGY	MARINE ECOSYSTEMS	PALEOECOLOGY	PRECIPITATION CHEMISTRY	SURFACE HYDROLOGY	VEGETATION DATA	WATER QUALITY	GEOLOGICAL	LAND USE	REGIONAL LAND TENURE	SOILS	TOPOGRAPHIC	VEGETATION
AUSTRIA																							
GOSSENKOLLESEE																							
GURGLER KAMM																							
LOBAU	6	13			15	13	X		15		16					15			X		X		X
NEUSIEDLER SEE-OSTERREICHISCHER TEIL	X	20		X	X	X	X		X	20	X				X	X	X	X	X		X	X	X
BELARUS																							
BEREZINSKY	23	65	25	20	60	65	X	10	30	10				5	10	20	10		X	X	X	X	X
BULGARIA																							
ALIBOTOUCH	10				12	5	X									10		X	X		X	X	X
BISTRISKO BRANICHTE	10				6	10	X		20							10		X	X		X	X	X
BOATINE		4			4	4	X		3		5			5	3	4	5	X	X		X	X	X
DJENDEMA	10	10			20	10	X		50							10	10	X	X		X	X	X
DOUPKATA		2			2	2										10		X	X		X	X	X
DOUPKI-DJINDJIRITZA					6	6	X		5							10		X	X		X	X	2
KAMCHIA	3	2			4	4	X									10	10	X	X		X	X	X
KOUPENA		3			3	3	X									10	5	X	X		X	X	X
MANTARITZA		X				2										10	15	X	X		X	X	X
MARITCHINI EZERA	3	3			8	2	X		50							10		X	X		X	X	X

BASIC RESOURCE INFORMATION

RESEARCH TOPICS

X = EXISTING PROGRAM # = NUMBER OF YEARS OF RECORDS ◆ = PRIORITY AREA

	HISTORICAL RECORDS						ECOSYSTEM CYCLES AND PROCESSES							SPECIES POPULATIONS			POLLUTION			
	AERIAL PHOTOGRAPHS	BIBLIOGRAPHY	BIBLIOGRAPHY - NUMBER OF REFERENCES	BIBLIOGRAPHY - YEAR OF LAST REVISION	GEOGRAPHIC INFORMATION SYSTEM	HISTORY OF SCIENTIFIC STUDY	BIOGEOCHEMICAL CYCLES	COMPARATIVE ECOLOGICAL RESEARCH	ECOLOGICAL SUCCESSION	ECOSYSTEM MODELING	FIRE HISTORY/EFFECTS	HYDROLOGICAL CYCLE	SEDIMENTATION	PESTS AND DISEASES	RARE/ENDANGERED SPECIES	WILDLIFE POPULATION DYNAMICS	ACIDIC DEPOSITION	ATMOSPHERIC POLLUTANTS	PESTICIDES	WATER POLLUTANTS
AUSTRIA																				
GOSSENKOLLESEE																				
GURGLER KAMM																				
LOBAU	18	X				X		X	X		X		X		X	X				
NEUSIEDLER SEE-OSTERREICHISCHER TEIL	20	X				X		X	X		X				X	X				X
BELARUS																				
BEREZINSKY	30	X	1200	1986		X	X	X	X			X	X	X	X	X	X	X	X	X
BULGARIA																				
ALIBOTOUCH		X						X	X				X		X					
BISTRISKO BRANICHTE		X							X				X		X					
BOATINE		X								X			X		X	X		X		
DJENDEMA													X		X					
DOUPKATA													X							
DOUPKI-DJINDJIRITZA								X	X	X		X	X	X	X					
KAMCHIA													X	X						X
KOUPENA													X		X					
MANTARITZA													X							
MARITCHINI EZERA								X		X		X	X							

RESEARCH TOPICS

X = EXISTING PROGRAM   ● = PRIORITY AREA

	HUMAN SYSTEMS							MANAGEMENT PRACTICES									
	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
AUSTRIA																	
GOSSENKOLLESEE																	
GURGLER KAMM																	
LOBAU											X					X	
NEUSIEDLER SEE-OSTERREICHISCHER TEIL							X			X				X			
BELARUS																	
BEREZINSKY							X	X		X	X		X	X		X	
BULGARIA																	
ALIBOTOUCH																	
BISTRISKO BRANICHTE																	
BOATINE																X	
DJENDEMA																	
DOUPKATA																	
DOUPKI-DJINDJIRITZA																	
KAMCHIA							X									X	
KOUPENA																	
MANTARITZA																X	
MARITCHINI EZERA																	

SITE SUPPORT

X = EXISTING PROGRAM ● = PRIORITY AREA

# = NUMBER OF STATIONS, SCIENTISTS, PLOTS, ETC.

	INFRASTRUCTURE						MONITORING AND RESEARCH FACILITIES							
	CONFERENCE FACILITIES	CURATORIAL FACILITY	LABORATORY	LIBRARY	LODGING FOR SCIENTISTS	ROAD ACCESS	AIR POLLUTION STATION	HYDROLOGICAL STATION	PERMANENT PLOTS: LAKE/STREAM	PERMANENT PLOTS: VEGETATION	WATERSHED RESEARCH SITE	WEATHER STATION	PERMANENT RESEARCH STAFF	NUMBER OF TYPES OF RECORDS, PROGRAMS, FACILITIES (MAXIMUM = 71)
AUSTRIA														
GOSSENKOLLESEE														0
GURGLER KAMM														0
LOBAU			X		10	X						X	20	27
NEUSIEDLER SEE-OSTERREICHISCHER TEIL	X	X	X	X	5	X		X				X	11	38
BELARUS														
BEREZINSKY	X	X	X	X	90	X	X	X		20	X	X	12	53
BULGARIA														
ALIBOTOUCH						X								16
BISTRISKO BRANICHTE					X	X				X		X		19
BOATINE	X				10	X		X		X		X	2	29
DJENDEMA					10	X		X				X		19
DOUPKATA						X								11
DOUPKI-DJINDJIRITZA	X			X	15	X				X		X	X	24
KAMCHIA								X		X				19
KOUPENA					5					X				15
MANTARITZA					2									12
MARITCHINI EZERA												X	2	18

BASIC RESOURCE INFORMATION

X = EXISTING PROGRAM   # = NUMBER OF YEARS OF RECORDS   ◆ = PRIORITY AREA

	BIOLOGICAL INVENTORY							ECOLOGICAL MONITORING										RESOURCE MAPS					
	INVERTEBRATES	MAMMALS	BIRDS	NONVASCULAR PLANTS	VASCULAR PLANTS	VERTEBRATES OTHER THAN MAMMALS	BIOLOGICAL SURVEY AND COLLECTIONS	AIR QUALITY	CLIMATE	FRESHWATER ECOSYSTEMS	GROUNDWATER HYDROLOGY	MARINE ECOSYSTEMS	PALEOECOLOGY	PRECIPITATION CHEMISTRY	SURFACE HYDROLOGY	VEGETATION DATA	WATER QUALITY	GEOLOGICAL	LAND USE	REGIONAL LAND TENURE	SOILS	TOPOGRAPHIC	VEGETATION
BULGARIA (CONT.)																							
OUZOUNBOUDJAK					3	3	X								3	10		X	X		X	X	X
PARANGALITZA	4	2			5	2	X		5					2	4	10	5	X	X		X	X	X
SREBARNA		5			5	40	X		5	2	3	X			5	X	X	5	X		X	X	X
STENETO	4	6			6	8	X	3	20					2	15	7	15	X	X		X	X	X
TCHERVENATA STENA	X				8	2	X									10		X	X		X	X	X
TCHOUPRENE						3	X									10		X	X		X	X	
TSARITCHINA	5	15			4	15	X		30		5					4		X	X		X	X	X
CANADA																							
CHARLEVOIX	X	X		X	X	X	X	X	X	X		X		X	X		X	X	X		X	X	X
LONG POINT	X	X	X		X	X	X	X		X			X		X	X	X			X	X	X	X
MONT-ST.-HILAIRE	5	5		5	5	5	X		10	28	X			3	X	28	28	X	X		X	X	X
NIAGARA ESCARPMENT	X	X		X	X	X	X	X	X	X	X				X	2	X	X	X		X	X	X
RIDING MOUNTAIN		50	X		30				30		20			5	50		30	X		X	X	X	X
WATERTON LAKES							X																
CROATIA																							
VELEBIT MOUNTAIN	X	X			X	X	X	30	30					3		X	X	X	X		X	X	X

BASIC RESOURCE INFORMATION | RESEARCH TOPICS

X - EXISTING PROGRAM # - NUMBER OF YEARS OF RECORDS # - PRIORITY AREA

	HISTORICAL RECORDS						ECOSYSTEM CYCLES AND PROCESSES							SPECIES POPULATIONS			POLLUTION			
	AERIAL PHOTOGRAPHS	BIBLIOGRAPHY	BIBLIOGRAPHY - NUMBER OF REFERENCES	BIBLIOGRAPHY - YEAR OF LAST REVISION	GEOGRAPHIC INFORMATION SYSTEM	HISTORY OF SCIENTIFIC STUDY	BIOGEOCHEMICAL CYCLES	COMPARATIVE ECOLOGICAL RESEARCH	ECOLOGICAL SUCCESSION	ECOSYSTEM MODELING	FIRE HISTORY/EFFECTS	HYDROLOGICAL CYCLE	SEDIMENTATION	PESTS AND DISEASES	RARE/ENDANGERED SPECIES	WILDLIFE POPULATION DYNAMICS	ACIDIC DEPOSITION	ATMOSPHERIC POLLUTANTS	PESTICIDES	WATER POLLUTANTS
BULGARIA (CONT.)																				
OUZOUNBOUDJAK										X		X	X		X					
PARANGALITZA		X											X	X	X		X			
SREBARNA	30	X				X		X	X		X	X	X	X	X	X				X
STENETO		X						X		X			X		X			X		
TCHERVENATA STENA		X											X		X					
TCHOUPRENE													X		X					
TSARITCHINA		X						X	X	X		X	X		X					
CANADA																				
CHARLEVOIX	X	X				X			X		X			X	X	X	X	X		X
LONG POINT	X	X	300	1990		X			X				X	X	X	X		X		X
MONT-ST.-HILAIRE	3	X				X	X	X	X				X	X			X	X		
NIAGARA ESCARPMENT	X	X				X			X		X	X			X	X	X	X		X
RIDING MOUNTAIN	60	X	1200	1974								X	X	X	X	X			X	
WATERTON LAKES		X						X	X					X	X	X				
CROATIA																				
VELEBIT MOUNTAIN	X	X				X		X	X				X		X		X			

RESEARCH TOPICS

X - EXISTING PROGRAM ● - PRIORITY AREA

	HUMAN SYSTEMS							MANAGEMENT PRACTICES									
	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
BULGARIA (CONT.)																	
OUZOUNBOUDJAK																	
PARANGALITZA							X									X	
SREBARNA							X	X	X	X				X			
STENETO																X	
TCHERVENATA STENA																	
TCHOUPRENE																	
TSARITCHINA																X	
CANADA																	
CHARLEVOIX		X								X		X		X		X	
LONG POINT	X	X	X		X	X				X							
MONT-ST.-HILAIRE										X		X		X			
NIAGARA ESCARPMENT		X						X		X		X		X		X	X
RIDING MOUNTAIN	X	X	X		X		X			X						X	X
WATERTON LAKES		X						X	X				X	X		X	
CROATIA																	
VELEBIT MOUNTAIN		X														X	

SITE SUPPORT

X = EXISTING PROGRAM ● = PRIORITY AREA

# = NUMBER OF STATIONS, SCIENTISTS, PLOTS, ETC.

	INFRASTRUCTURE						MONITORING AND RESEARCH FACILITIES							
	CONFERENCE FACILITIES	CURATORIAL FACILITY	LABORATORY	LIBRARY	LODGING FOR SCIENTISTS	ROAD ACCESS	AIR POLLUTION STATION	HYDROLOGICAL STATION	PERMANENT PLOTS: LAKE/STREAM	PERMANENT PLOTS: VEGETATION	WATERSHED RESEARCH SITE	WEATHER STATION	PERMANENT RESEARCH STAFF	NUMBER OF TYPES OF RECORDS, PROGRAMS, FACILITIES (MAXIMUM = 71)
BULGARIA (CONT.)														
OUZOUNBOUDJAK														14
PARANGALITZA				X	4			X		X		X	X	28
SREBARNA	X	X	X	X	10			X		X	X	X	2	43
STENETO					15		X	X		X		X	X	29
TCHERVENATA STENA														13
TCHOUPRENE														9
TSARITCHINA	X				20	X		X				X		26
CANADA														
CHARLEVOIX	X	X	X	X	●500	X		X	X	X	X	X	X	46
LONG POINT				X	5	X	X					X		37
MONT-ST.-HILAIRE	X	X	X	X	50	X								37
NIAGARA ESCARPMENT	X			X	X	X		X	X	6		X	X	45
RIDING MOUNTAIN	X			X		X		X			X	X		35
WATERTON LAKES	X	X		X	4	X		X		X		X		21
CROATIA														
VELEBIT MOUNTAIN	X	X			10	X	X					X	2	32

BASIC RESOURCE INFORMATION

X = EXISTING PROGRAM # = NUMBER OF YEARS OF RECORDS ● = PRIORITY AREA

	BIOLOGICAL INVENTORY							ECOLOGICAL MONITORING										RESOURCE MAPS					
	INVERTEBRATES	MAMMALS	BIRDS	NONVASCULAR PLANTS	VASCULAR PLANTS	VERTEBRATES OTHER THAN MAMMALS	BIOLOGICAL SURVEY AND COLLECTIONS	AIR QUALITY	CLIMATE	FRESHWATER ECOSYSTEMS	GROUNDWATER HYDROLOGY	MARINE ECOSYSTEMS	PALEOECOLOGY	PRECIPITATION CHEMISTRY	SURFACE HYDROLOGY	VEGETATION DATA	WATER QUALITY	GEOLOGICAL	LAND USE	REGIONAL LAND TENURE	SOILS	TOPOGRAPHIC	VEGETATION
CZECH REPUBLIC																							
KRIVOKLATSKO	X	X	X		X	X	X	X	X	X	X			X	X	X	X	X			X	X	X
KRKONOSE	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X		X	X	X
PALAVA	X	X	X	X	X	X	X		50	X					50	X	X	X	X		X	X	X
SUMAVA	X	X	X	X	X	X	X	X	X	X	X		X	X			X	X			X	X	X
TREBON BASIN	10	20	X	20	20	20	X	5	50	20	X		X		50	20	X	X	X		X	X	X
DENMARK																							
NORTH-EAST GREENLAND	30	60			10	60	X	2	40					2		10		X				X	X
ESTONIA																							
WEST ESTONIAN ARCHIPELAGO	X	X		X		X		X	X		X			X	X		X	X	X		X		
FINLAND																							
NORTHERN KARELIAN	X	X	X	X	X	X	X	X	X	X	X			X	X		X	X			X	X	X
FRANCE																							
ATOLL DE TAIARO																							
CAMARGUE	X	X	X		60	60		X	47	54	15				34	60	16	X	X	X	X	140	X
CEVENNES	15	15		X	15	15	X	2	100	10	30		X	5	10	15	10	80	30		X	100	30

BASIC RESOURCE INFORMATION | RESEARCH TOPICS

X = EXISTING PROGRAM # = NUMBER OF YEARS OF RECORDS ● = PRIORITY AREA

	HISTORICAL RECORDS						ECOSYSTEM CYCLES AND PROCESSES							SPECIES POPULATIONS			POLLUTION			
	AERIAL PHOTOGRAPHS	BIBLIOGRAPHY	BIBLIOGRAPHY - NUMBER OF REFERENCES	BIBLIOGRAPHY - YEAR OF LAST REVISION	GEOGRAPHIC INFORMATION SYSTEM	HISTORY OF SCIENTIFIC STUDY	BIOGEOCHEMICAL CYCLES	COMPARATIVE ECOLOGICAL RESEARCH	ECOLOGICAL SUCCESSION	ECOSYSTEM MODELING	FIRE HISTORY/EFFECTS	HYDROLOGICAL CYCLE	SEDIMENTATION	PESTS AND DISEASES	RARE/ENDANGERED SPECIES	WILDLIFE POPULATION DYNAMICS	ACIDIC DEPOSITION	ATMOSPHERIC POLLUTANTS	PESTICIDES	WATER POLLUTANTS
CZECH REPUBLIC																				
KRIVOKLATSKO	X	X	300	1992	X	X	X	X	X			X	X	X	X	X	X	X		X
KRKONOSE	X	X	1200	1992	X	X		X	X	X			X	X	X	X	X	X	X	X
PALAVA	X	X	450	1992		X		X	X	X				X	X	X				
SUMAVA	X	X	350	1992		X	X	X	X	X		X		X	X	X	X	X	X	X
TREBON BASIN	X	X	450	1992	X	X	X	X	X	X		X		X	X	X		X	X	X
DENMARK																				
NORTH-EAST GREENLAND	25	X				X		X	X						X	X	2	2		
ESTONIA																				
WEST ESTONIAN ARCHIPELAGO													X		X	X				
FINLAND																				
NORTHERN KARELIAN	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FRANCE																				
ATOLL DE TAIARO																				
CAMARGUE	50	11				X	X		X	X		X	X		X	X				
CEVENNES	25	100			X		X		X	X	X	X	X		X	X	X	X		X

RESEARCH TOPICS

X = EXISTING PROGRAM ◖ = PRIORITY AREA

	HUMAN SYSTEMS							MANAGEMENT PRACTICES									
	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
CZECH REPUBLIC																	
KRIVOKLATSKO	X		X				X			X	X	X			X		
KRKONOSE			X		X		X	X	X	X	X	X		X	X	X	X
PALAVA		X	X	X			X	X	X	X	X			X		X	X
SUMAVA	X							X	X	X	X			X	X	X	
TREBON BASIN	X		X		X	X	X	X	X	X		X	X	X	X	X	X
DENMARK																	
NORTH-EAST GREENLAND										X		X					
ESTONIA																	
WEST ESTONIAN ARCHIPELAGO							X						X	X		X	
FINLAND																	
NORTHERN KARELIAN		X		X	X		X	X	X	X		X		X	X	X	X
FRANCE																	
ATOLL DE TAIARO																	
CAMARGUE							X			X				X			
CEVENNES	X	X		X			X	X			X	X		X		X	X

SITE SUPPORT

X = EXISTING PROGRAM ● = PRIORITY AREA

= NUMBER OF STATIONS, SCIENTISTS, PLOTS, ETC.

	INFRASTRUCTURE						MONITORING AND RESEARCH FACILITIES							
	CONFERENCE FACILITIES	CURATORIAL FACILITY	LABORATORY	LIBRARY	LODGING FOR SCIENTISTS	ROAD ACCESS	AIR POLLUTION STATION	HYDROLOGICAL STATION	PERMANENT PLOTS: LAKE/STREAM	PERMANENT PLOTS: VEGETATION	WATERSHED RESEARCH SITE	WEATHER STATION	PERMANENT RESEARCH STAFF	NUMBER OF TYPES OF RECORDS, PROGRAMS, FACILITIES (MAXIMUM = 71)
CZECH REPUBLIC														
KRIVOKLATSKO	X			X	6	X	X	X			2	X	X	49
KRKONOSE	X			X		X			X	X	X	X		54
PALAVA	X			X	10	X	X		X	X		X	X	46
SUMAVA	X				20	X	X		X	X		X	X	49
TREBON BASIN	X	X	X	X		X	5	X		2		X	10	59
DENMARK														
NORTH-EAST GREENLAND	2	2	2	2		2	2	2		X		25		32
ESTONIA														
WEST ESTONIAN ARCHIPELAGO	X		X	X	25		X	X				X	35	28
FINLAND														
NORTHERN KARELIAN	X	X	X	X	95	X	X	X	X	X	X	X		60
FRANCE														
ATOLL DE TAIARO														0
CAMARGUE	X		X	X	X	X		X		17		X	20	40
CEVENNES	X			2	20	X		3		3	4	10	15	53

BASIC RESOURCE INFORMATION

X = EXISTING PROGRAM # = NUMBER OF YEARS OF RECORDS ● = PRIORITY AREA

	BIOLOGICAL INVENTORY							ECOLOGICAL MONITORING										RESOURCE MAPS					
	INVERTEBRATES	MAMMALS	BIRDS	NONVASCULAR PLANTS	VASCULAR PLANTS	VERTEBRATES OTHER THAN MAMMALS	BIOLOGICAL SURVEY AND COLLECTIONS	AIR QUALITY	CLIMATE	FRESHWATER ECOSYSTEMS	GROUNDWATER HYDROLOGY	MARINE ECOSYSTEMS	PALEOECOLOGY	PRECIPITATION CHEMISTRY	SURFACE HYDROLOGY	VEGETATION DATA	WATER QUALITY	GEOLOGICAL	LAND USE	REGIONAL LAND TENURE	SOILS	TOPOGRAPHIC	VEGETATION
FRANCE (CONT.)																							
GUADELOUPE ARCHIPELAGO	X	X	X	X	X	X	X		X	X	X	X			X		X	X	X		X	X	X
IROISE	X	X	X	X	15	X	X		100	X		X			X	30	X	X	X		5	X	5
MONT VENTOUX	X			X	X	X	X		X	X	X				X	X	X	X	X		X	X	
VALLEE DU FANGO	X	X	X	X	X	X	X		14	X				X	X	X	X	X	X		X	X	X
VOSGES DU NORD	X	X	15	X	15	X	X	X	X	X				2	X	X	X	X	X		X	X	X
GERMANY																							
BAYERISCHER WALD	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X		X	X	X
BERCHTESGADEN ALPS	X	X	X	X	X	X	X	X	X	X				X	X	12	13	X	61		X	X	X
MIDDLE ELBE	X	X		X	X	X	X	X	X	X	X				X		X	X			X	X	X
PFAELZERWALD	X	X		X	X	X	X	X	X	X	X			X	X		X	X			X	X	X
RHOEN	X	X	X	X	X	X	X	X	X	X	X			X	X		X	X	X		X	X	X
RUEGEN	X	X		X	X	X	X		X		X	X		X	X		X		X	X	X	X	X
SCHORFHEIDE-CHORIN	X	X			X	X	X	X	X	X	X			X	X		X	X			X	X	X
SPREEWALD	X	X	X		X	X	X	X	X	X	X			X	X		X	X	X		X	X	X
VESSERTAL-THURINGIAN FOREST	X	X	X	X	X	X	X		X	X	X				X		X	X	X		X	X	X
WADDENSEA OF HAMBURG	X	X	X		X	X	X		X			X			X		X		X			X	X
WADDENSEA OF LOWER SAXONY	X	X		X	X	X	X		X		X	X			X		X	X	X		X	X	X
WADDENSEA OF SCHLESWIG-HOLSTEIN	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X

BASIC RESOURCE INFORMATION | RESEARCH TOPICS

X - EXISTING PROGRAM # - NUMBER OF YEARS OF RECORDS ◆ - PRIORITY AREA

	HISTORICAL RECORDS						ECOSYSTEM CYCLES AND PROCESSES							SPECIES POPULATIONS			POLLUTION			
	AERIAL PHOTOGRAPHS	BIBLIOGRAPHY	BIBLIOGRAPHY - NUMBER OF REFERENCES	BIBLIOGRAPHY - YEAR OF LAST REVISION	GEOGRAPHIC INFORMATION SYSTEM	HISTORY OF SCIENTIFIC STUDY	BIOGEOCHEMICAL CYCLES	COMPARATIVE ECOLOGICAL RESEARCH	ECOLOGICAL SUCCESSION	ECOSYSTEM MODELING	FIRE HISTORY/EFFECTS	HYDROLOGICAL CYCLE	SEDIMENTATION	PESTS AND DISEASES	RARE/ENDANGERED SPECIES	WILDLIFE POPULATION DYNAMICS	ACIDIC DEPOSITION	ATMOSPHERIC POLLUTANTS	PESTICIDES	WATER POLLUTANTS
FRANCE (CONT.)																				
GUADELOUPE ARCHIPELAGO	X	X	900	1992	X	X	X	X	X			X	X	X	X	X			X	X
IROISE	60	X	1400	1993	X	X		X	X	X			X	X	X	X				X
MONT VENTOUX	X					X	X	X	X	X	X	X		X	X	X				
VALLEE DU FANGO	X	X						X	X		X	X		X	X	X	X	X		X
VOSGES DU NORD	12	X			X	X			X		X				X	X	X	X	X	X
GERMANY																				
BAYERISCHER WALD	14	X				X	X	X	X	X		X	X	X	X	X	X	X	X	X
BERCHTESGADEN ALPS	3	X	200	1992		X	X	X	X	X			X	X	X	X	X			
MIDDLE ELBE	X	X				X		X	X	X		X	X	X	X	X	X	X	X	X
PFAELZERWALD	X	X				X			X	X		X		X	X					
RHOEN	X	X			X	X			X	X			X		X	X	X			
RUEGEN	X	X			X	X		X	X				X		X		X	X		X
SCHORFHEIDE-CHORIN	X	X					X	X	X	X		X	X	X	X	X	X	X	X	X
SPREEWALD	X	X		1991	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
VESSERTAL-THURINGIAN FOREST	X	X				X			X						X	X	X	X		X
WADDENSEA OF HAMBURG	X								X						X	X				
WADDENSEA OF LOWER SAXONY	X	X			X	X	X	X	X	X		X	X	X	X	X		X	X	X
WADDENSEA OF SCHLESWIG-HOLSTEIN	X	X	1000	1992	X	X	X	X	X	X		X	X	X	X	X		X	X	X

RESEARCH TOPICS

X = EXISTING PROGRAM ● = PRIORITY AREA

FRANCE (CONT.)

	HUMAN SYSTEMS							MANAGEMENT PRACTICES									
	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
GUADELOUPE ARCHIPELAGO		X		X	X		X	X	X	X	X			X	X	X	X
IROISE	X	X	X	X	X		X	X	X		X			X		X	
MONT VENTOUX		X		X				X	X	X		X	X	X		X	X
VALLEE DU FANGO	X			X			X	X		X				X			X
VOSGES DU NORD		X					X	X	X	X	X		X	X		X	

GERMANY

	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
BAYERISCHER WALD							X			X		X	X	X		X	X
BERCHTESGADEN ALPS							X	X		X			X	X		X	X
MIDDLE ELBE		X						X		X		X	X	X		X	
PFAELZERWALD	X			X			X			X	X			X	X	X	
RHOEN		X					X	X	X	X	X	X	X	X		X	X
RUEGEN	X	X	X		X	X	X	X		X	X	X		X			X
SCHORFHEIDE-CHORIN		X					X	X	X	X	X			X		X	X
SPREEWALD		X					X	X	X	X	X	X		X		X	X
VESSERTAL-THURINGIAN FOREST							X		X	X	X	X	X	X			X
WADDENSEA OF HAMBURG																	
WADDENSEA OF LOWER SAXONY			X	X	X		X			X				X		X	
WADDENSEA OF SCHLESWIG-HOLSTEIN	X	X	X		X	X		X	X	X		X	X	X	X	X	X

SITE SUPPORT

X = EXISTING PROGRAM ● = PRIORITY AREA

= NUMBER OF STATIONS, SCIENTISTS, PLOTS, ETC.

FRANCE (CONT.)

	INFRASTRUCTURE						MONITORING AND RESEARCH FACILITIES							
	CONFERENCE FACILITIES	CURATORIAL FACILITY	LABORATORY	LIBRARY	LODGING FOR SCIENTISTS	ROAD ACCESS	AIR POLLUTION STATION	HYDROLOGICAL STATION	PERMANENT PLOTS: LAKE/STREAM	PERMANENT PLOTS: VEGETATION	WATERSHED RESEARCH SITE	WEATHER STATION	PERMANENT RESEARCH STAFF	NUMBER OF TYPES OF RECORDS, PROGRAMS, FACILITIES (MAXIMUM = 71)
GUADELOUPE ARCHIPELAGO	X	X	X	X	10	X		X	X	X	X	X	20	56
IROISE	X	X	X	X	42	X		X		75		X	7	51
MONT VENTOUX	X		X	X	X	X					X	X	16	44
VALLEE DU FANGO	X		X		15	X		X	5	8		X	6	46
VOSGES DU NORD	X		X	X	X	X	X			X		X	X	49

GERMANY

	INFRASTRUCTURE						MONITORING AND RESEARCH FACILITIES							
	CONFERENCE FACILITIES	CURATORIAL FACILITY	LABORATORY	LIBRARY	LODGING FOR SCIENTISTS	ROAD ACCESS	AIR POLLUTION STATION	HYDROLOGICAL STATION	PERMANENT PLOTS: LAKE/STREAM	PERMANENT PLOTS: VEGETATION	WATERSHED RESEARCH SITE	WEATHER STATION	PERMANENT RESEARCH STAFF	NUMBER OF TYPES OF RECORDS, PROGRAMS, FACILITIES (MAXIMUM = 71)
BAYERISCHER WALD	X	X		X	70	X	X	X	X	X		X	5	54
BERCHTESGADEN ALPS	X	X	X	X	15	X		X	X	20	X	X	7	50
MIDDLE ELBE	X			X		X				X				42
PFAELZERWALD	X		X	X	X		X					X		39
RHOEN	X		X	X	10	X	X	X		X	X	X		50
RUEGEN	X	X				X		X				X		45
SCHORFHEIDE-CHORIN	X		X	X	50		X	X		X	X	X		49
SPREEWALD	X			X	10		X	X	X	X	X	X		54
VESSERTAL-THURINGIAN FOREST	X				4	X	X			X		2	7	41
WADDENSEA OF HAMBURG	X		X		X						X			21
WADDENSEA OF LOWER SAXONY	X	X	X	X				X		X		X		46
WADDENSEA OF SCHLESWIG-HOLSTEIN	X	X	X	X	40	X	X	X	X	X	X	X	50	65

BASIC RESOURCE INFORMATION

X = EXISTING PROGRAM # = NUMBER OF YEARS OF RECORDS ◆ = PRIORITY AREA

	BIOLOGICAL INVENTORY							ECOLOGICAL MONITORING										RESOURCE MAPS					
	INVERTEBRATES	MAMMALS	BIRDS	NONVASCULAR PLANTS	VASCULAR PLANTS	VERTEBRATES OTHER THAN MAMMALS	BIOLOGICAL SURVEY AND COLLECTIONS	AIR QUALITY	CLIMATE	FRESHWATER ECOSYSTEMS	GROUNDWATER HYDROLOGY	MARINE ECOSYSTEMS	PALEOECOLOGY	PRECIPITATION CHEMISTRY	SURFACE HYDROLOGY	VEGETATION DATA	WATER QUALITY	GEOLOGICAL	LAND USE	REGIONAL LAND TENURE	SOILS	TOPOGRAPHIC	VEGETATION
GREECE																							
GORGE OF SAMARIA	X	X	X	X	X	X			X						X	X		X	X	X	X	X	X
MOUNT OLYMPUS		X	X	X	X	X	X		X						X	X		X	X	X	X	X	X
HUNGARY																							
AGGTELEK							X	3	3		20			X	20			2					
HORTOBAGY	10	10		10	10	10	X	5	35	10	40			5	100	40	40	X	10		X	X	X
KISKUNSAG	13	13		13	13	13	X	8	13	13	10				13	13	13	10	13		X	X	X
LAKE FERTO	13	13		13	13	13	X	X	X	8	X			X	X	38	X	6					X
PILIS	28	40		30	30	28	X		40	5					40	30	5	X				X	X
IRELAND																							
KILLARNEY	X	X		X	X	X	X		X	19			X			23	19	X		X		X	
NORTH BULL ISLAND												X										X	X
ITALY																							
CIRCEO		X		X	X	X	X		X	X					X	X	X	X			X	X	X
COLLEMELUCCIO-MONTEDIMEZZO				X	X		X		X							X		X	X			X	
MIRAMARE	91			89	89		90		90			89				88		91	89		91	88	
KYRGYZSTAN																							
CHATKAL MOUNTAINS							X	3	X	3					15	40	3				X		

BASIC RESOURCE INFORMATION | RESEARCH TOPICS

X = EXISTING PROGRAM # = NUMBER OF YEARS OF RECORDS ✓ = PRIORITY AREA

	HISTORICAL RECORDS						ECOSYSTEM CYCLES AND PROCESSES							SPECIES POPULATIONS			POLLUTION			
	AERIAL PHOTOGRAPHS	BIBLIOGRAPHY	BIBLIOGRAPHY - NUMBER OF REFERENCES	BIBLIOGRAPHY - YEAR OF LAST REVISION	GEOGRAPHIC INFORMATION SYSTEM	HISTORY OF SCIENTIFIC STUDY	BIOGEOCHEMICAL CYCLES	COMPARATIVE ECOLOGICAL RESEARCH	ECOLOGICAL SUCCESSION	ECOSYSTEM MODELING	FIRE HISTORY/EFFECTS	HYDROLOGICAL CYCLE	SEDIMENTATION	PESTS AND DISEASES	RARE/ENDANGERED SPECIES	WILDLIFE POPULATION DYNAMICS	ACIDIC DEPOSITION	ATMOSPHERIC POLLUTANTS	PESTICIDES	WATER POLLUTANTS
GREECE																				
GORGE OF SAMARIA	X	X									X				X	X				
MOUNT OLYMPUS	X	X			X						X				X					
HUNGARY																				
AGGTELEK	X							X					X				X	X		X
HORTOBAGY	5	10				X							X		X		X	X		X
KISKUNSAG	2	13				X		X	X	X	X	X	X		X	X				
LAKE FERTO	X	16				X		X					X		X		X			X
PILIS	30	X				X	X	X	X	X		X	X		X	X	X	X		X
IRELAND																				
KILLARNEY	X	X	150	1992				X	X		X				X	X				X
NORTH BULL ISLAND	X	X							2				X			X				
ITALY																				
CIRCEO	X	X				X			X	X	X	X	X		X					X
COLLEMELUCCIO-MONTEDIMEZZO		X				X			X		X	X			X					
MIRAMARE		X				91			X							X				
KYRGYZSTAN																				
CHATKAL MOUNTAINS		X											X		X	X		X	X	X

RESEARCH TOPICS

X - EXISTING PROGRAM ♦ - PRIORITY AREA

	HUMAN SYSTEMS							MANAGEMENT PRACTICES									
	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
GREECE																	
GORGE OF SAMARIA			X			X											
MOUNT OLYMPUS	X				X									X			
HUNGARY																	
AGGTELEK							X					X					
HORTOBAGY				X			X	X	X	X		X					
KISKUNSAG							X	X		X	X						
LAKE FERTO							X										
PILIS		X		X						X	X	X		X			
IRELAND																	
KILLARNEY								X		X				X			
NORTH BULL ISLAND										X				X			
ITALY																	
CIRCEO										X				X			
COLLEMELUCCIO-MONTEDIMEZZO							X			X				X			
MIRAMARE														X		X	
KYRGYZSTAN																	
CHATKAL MOUNTAINS							X					X	X			X	

SITE SUPPORT

X = EXISTING PROGRAM ● = PRIORITY AREA

= NUMBER OF STATIONS, SCIENTISTS, PLOTS, ETC.

	INFRASTRUCTURE						MONITORING AND RESEARCH FACILITIES							
	CONFERENCE FACILITIES	CURATORIAL FACILITY	LABORATORY	LIBRARY	LODGING FOR SCIENTISTS	ROAD ACCESS	AIR POLLUTION STATION	HYDROLOGICAL STATION	PERMANENT PLOTS: LAKE/STREAM	PERMANENT PLOTS: VEGETATION	WATERSHED RESEARCH SITE	WEATHER STATION	PERMANENT RESEARCH STAFF	NUMBER OF TYPES OF RECORDS, PROGRAMS, FACILITIES (MAXIMUM = 71)
GREECE														
GORGE OF SAMARIA		X			X	X								25
MOUNT OLYMPUS		X			X	X								26
HUNGARY														
AGGTELEK	X				20	X	X	X				X		21
HORTOBAGY	X		X		28		X	X				X	7	40
KISKUNSAG	X		X	X	90		X	X				X	5	41
LAKE FERTO	X		X		4	X	X	X				X		32
PILIS	X											X		36
IRELAND														
KILLARNEY	X		X			X			9	53		X		31
NORTH BULL ISLAND	2	2	X	X		X	X	X						17
ITALY														
CIRCEO	X			X	X	X		X				X		32
COLLEMELUCCIO-MONTEDIMEZZO					X	X						X		20
MIRAMARE			X	X		X		X				X		22
KYRGYZSTAN														
CHATKAL MOUNTAINS	X		X	X	5		X	X				X	19	27

BASIC RESOURCE INFORMATION

X - EXISTING PROGRAM # - NUMBER OF YEARS OF RECORDS ◆ - PRIORITY AREA

	BIOLOGICAL INVENTORY							ECOLOGICAL MONITORING										RESOURCE MAPS					
	INVERTEBRATES	MAMMALS	BIRDS	NONVASCULAR PLANTS	VASCULAR PLANTS	VERTEBRATES OTHER THAN MAMMALS	BIOLOGICAL SURVEY AND COLLECTIONS	AIR QUALITY	CLIMATE	FRESHWATER ECOSYSTEMS	GROUNDWATER HYDROLOGY	MARINE ECOSYSTEMS	PALEOECOLOGY	PRECIPITATION CHEMISTRY	SURFACE HYDROLOGY	VEGETATION DATA	WATER QUALITY	GEOLOGICAL	LAND USE	REGIONAL LAND TENURE	SOILS	TOPOGRAPHIC	VEGETATION
NETHERLANDS																							
WADDENSEA AREA	30	30		30	100	50	X		100			99			99	30	30	X			X	X	X
NORWAY																							
NORTH-EAST SVALBARD																							
POLAND																							
BABIA GORA	120	120		120	180	120	X	5	30	4	14			5	24	55		X	X		X	X	X
BIALOWIEZA	81	74		101	102	74	X	6	68		44			6	21	73	15	X			X	X	X
EASTERN BESKID	X	X		X	X	X	X	X	X	X	X			X	X		X	X			X	X	X
KARKONOSZE	X	X		X	X	X	X	X	X		X			X	X		X	X			X	X	X
LUKAJNO LAKE	20	20		16			X	10		X					6	73	15					X	X
SLOWINSKI		X			X		X	X	40			X		X		X	2		X		X	X	X
TATRA MOUNTAINS	X	X		X	X	X	X	X	X	X	X			X	X		X	X	X		X	X	X
PORTUGAL																							
PAUL DO BOQUILOBO					5	6	X												X				
ROMANIA																							
DANUBE DELTA	X	X		X	X	X	X		X	X		X			X		X	X	X		X	X	X
PIETROSUL MARE	10	30		30	30	30	X		50	10	10				50	60	30	80	30		20	100	60
RETEZAT	10	50		50	50	50	X		50	10	10				50	70	30	80	50		20	100	60

BASIC RESOURCE INFORMATION | RESEARCH TOPICS

X = EXISTING PROGRAM # = NUMBER OF YEARS OF RECORDS ● = PRIORITY AREA

	HISTORICAL RECORDS						ECOSYSTEM CYCLES AND PROCESSES							SPECIES POPULATIONS			POLLUTION			
	AERIAL PHOTOGRAPHS	BIBLIOGRAPHY	BIBLIOGRAPHY - NUMPER OF REFERENCES	BIBLIOGRAPHY - YEAR OF LAST REVISION	GEOGRAPHIC INFORMATION SYSTEM	HISTORY OF SCIENTIFIC STUDY	BIOGEOCHEMICAL CYCLES	COMPARATIVE ECOLOGICAL RESEARCH	ECOLOGICAL SUCCESSION	ECOSYSTEM MODELING	FIRE HISTORY/EFFECTS	HYDROLOGICAL CYCLE	SEDIMENTATION	PESTS AND DISEASES	RARE/ENDANGERED SPECIES	WILDLIFE POPULATION DYNAMICS	ACIDIC DEPOSITION	ATMOSPHERIC POLLUTANTS	PESTICIDES	WATER POLLUTANTS
NETHERLANDS																				
WADDENSEA AREA	15	X				X	X	X	X	X		X			X	X	X		X	X
NORWAY																				
NORTH-EAST SVALBARD																				
POLAND																				
BABIA GORA	8	X				X	X	X	X			X	X	X		X	X	X		
BIALOWIEZA	20	X				162	X	X	X	X		X	X	X	X	X	X	X		X
EASTERN BESKID	X	X			X			X	X			X	X		X	X		X		X
KARKONOSZE	X	X											X		X		X	X		
LUKAJNO LAKE	X					X			X						X	X			X	X
SLOWINSKI		X				X		X	X				X	X	X	X	X	X		X
TATRA MOUNTAINS	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X		X
PORTUGAL																				
PAUL DO BOQUILOBO																X			X	X
ROMANIA																				
DANUBE DELTA	X	X				X	X	X	X		X	X		X	X	X	X		X	
PIETROSUL MARE	X					50		X				X		X	X	X				
RETEZAT	X					50	X	X	X			X		X	X	X				

RESEARCH TOPICS

X = EXISTING PROGRAM ● = PRIORITY AREA

	HUMAN SYSTEMS							MANAGEMENT PRACTICES									
	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
NETHERLANDS																	
WADDENSEA AREA										X			X	X			
NORWAY																	
NORTH-EAST SVALBARD																	
POLAND																	
BABIA GORA											X			X		X	
BIALOWIEZA										X	X	X		X		X	
EASTERN BESKID				X			X	X		X	X			X	X	X	X
KARKONOSZE					X		X			X				X	X	X	
LUKAJNO LAKE													X				
SLOWINSKI										X			X	X			
TATRA MOUNTAINS				X	X		X	X	X	X	X	X		X	X	X	X
PORTUGAL																	
PAUL DO BOQUILOBO							X	X	X	X			X				
ROMANIA																	
DANUBE DELTA		X		X	X			X	X			X	X		X	X	X
PIETROSUL MARE		X		X			X	X	X	X	X	X	X	X		X	X
RETEZAT		X		X			X	X	X	X	X	X	X	X		X	X

SITE SUPPORT

X = EXISTING PROGRAM ● = PRIORITY AREA

= NUMBER OF STATIONS, SCIENTISTS, PLOTS, ETC.

	INFRASTRUCTURE						MONITORING AND RESEARCH FACILITIES							
	CONFERENCE FACILITIES	CURATORIAL FACILITY	LABORATORY	LIBRARY	LODGING FOR SCIENTISTS	ROAD ACCESS	AIR POLLUTION STATION	HYDROLOGICAL STATION	PERMANENT PLOTS: LAKE/STREAM	PERMANENT PLOTS: VEGETATION	WATERSHED RESEARCH SITE	WEATHER STATION	PERMANENT RESEARCH STAFF	NUMBER OF TYPES OF RECORDS, PROGRAMS, FACILITIES (MAXIMUM = 71)
NETHERLANDS														
WADDENSEA AREA	X	X	X	X	10	X		X	10	50		X	20	42
NORWAY														
NORTH-EAST SVALBARD														0
POLAND														
BABIA GORA		X	X	X	3	X	4			500		X	2	42
BIALOWIEZA	X	X	X	X	20	X	X			30		X	3	47
EASTERN BESKID	X	X	X	X	10	X				X		X		45
KARKONOSZE	X		X	X	7	X	X	X				X		36
LUKAJNO LAKE			X	X										21
SLOWINSKI	X	X	X	X	20	X	X					X	X	36
TATRA MOUNTAINS	X	X	X	X	5	X		X	X	X	X	X		57
PORTUGAL														
PAUL DO BOQUILOBO			X		10			X				X		16
ROMANIA														
DANUBE DELTA	X		X	X	25	X		X				X		46
PIETROSUL MARE	X					X	X	50			X	X		42
RETEZAT	X		X		X	X	X	50			X	X		46

BASIC RESOURCE INFORMATION

X = EXISTING PROGRAM   # = NUMBER OF YEARS OF RECORDS   ● = PRIORITY AREA

	BIOLOGICAL INVENTORY							ECOLOGICAL MONITORING										RESOURCE MAPS					
	INVERTEBRATES	MAMMALS	BIRDS	NONVASCULAR PLANTS	VASCULAR PLANTS	VERTEBRATES OTHER THAN MAMMALS	BIOLOGICAL SURVEY AND COLLECTIONS	AIR QUALITY	CLIMATE	FRESHWATER ECOSYSTEMS	GROUNDWATER HYDROLOGY	MARINE ECOSYSTEMS	PALEOECOLOGY	PRECIPITATION CHEMISTRY	SURFACE HYDROLOGY	VEGETATION DATA	WATER QUALITY	GEOLOGICAL	LAND USE	REGIONAL LAND TENURE	SOILS	TOPOGRAPHIC	VEGETATION
RUSSIAN FEDERATION																							
ASTRAKHANSKIY	65	65		65	65	65	X	4	47	41	12				41	65		X			X	X	X
KAVKAZSKIY	62	62		62	62	62	X	5	60	10	60			5	60	62	15	X	X		X	X	X
KRONOTSKIY	7	10		7	10	10	X		18						X	20		X			X	X	X
LAKE BAIKAL: BAIKALSKIY	7	10		7	10	10	X		18						X	20		X			X	X	X
LAKE BAIKAL: BARGUZINSKIY		13		3	8	13	X	2	14						X						X		
LAPLANDSKIY		50			30	50	X	10															
OKA RIVER VALLEY	15	40		X	40	40	X			50	X				53	50	30						X
PECHORO-ILYCHSKIY	X	20		X	20	20	X		X	X					X	X	X		X				X
SAYANO-SHUSHENSKIY	10	10		7	10	10	X		10	10					10			X			X	X	X
SIKHOTE-ALINSKIY	50	50		50	50	50	X	3	40	15					10	50		X			X	X	X
SOKHONDINSKIY		X			X	X	X		X		X				X	X	X					X	X
TSENTRAL'NO-CHERNOZEMNY	40	50		20	50	50	X		40						30	35			X		X	X	X
TSENTRAL'NO-LESNOY	50	50		50	50	50	X	2	18		50				50	50	4	X	X		X	X	X
TSENTRAL'NOSIBIRSKIY		2			2	2	X									2							X
VORONEZHSKIY	10	40		5	50	40			54														
SLOVAKIA																							
EAST CARPATHIANS	X	X		X	X	X	X		X	X					X		X	X	X		X	X	X
POLANA	X	X		X	X	X	X	X	X					X			X	X			X	X	X
SLOVENSKY KRAS	10	35	X	35	55	35	X		50	X	20		X	30	18		28	X	X		X	X	X
TATRY	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X

X = EXISTING PROGRAM # = NUMBER OF YEARS OF RECORDS ● = PRIORITY AREA

	BASIC RESOURCE INFORMATION						RESEARCH TOPICS													
	HISTORICAL RECORDS						ECOSYSTEM CYCLES AND PROCESSES							SPECIES POPULATIONS			POLLUTION			
	AERIAL PHOTOGRAPHS	BIBLIOGRAPHY	BIBLIOGRAPHY - NUMBER OF REFERENCES	BIBLIOGRAPHY - YEAR OF LAST REVISION	GEOGRAPHIC INFORMATION SYSTEM	HISTORY OF SCIENTIFIC STUDY	BIOGEOCHEMICAL CYCLES	COMPARATIVE ECOLOGICAL RESEARCH	ECOLOGICAL SUCCESSION	ECOSYSTEM MODELING	FIRE HISTORY/EFFECTS	HYDROLOGICAL CYCLE	SEDIMENTATION	PESTS AND DISEASES	RARE/ENDANGERED SPECIES	WILDLIFE POPULATION DYNAMICS	ACIDIC DEPOSITION	ATMOSPHERIC POLLUTANTS	PESTICIDES	WATER POLLUTANTS
RUSSIAN FEDERATION																				
ASTRAKHANSKIY	X	X				X	X	X			X			X	X	X		X		X
KAVKAZSKIY	5	62					X	X	X	X		X		X	X	X	X	X	X	X
KRONOTSKIY	12	X				X	X	X	X	X		X	X	X	X	X				
LAKE BAIKAL: BAIKALSKIY	12	X				X	X	X	X	X		X	X	X	X	X				
LAKE BAIKAL: BARGUZINSKIY		X				X		X	X	X					X	X	X	X		X
LAPLANDSKIY								X								X		X		X
OKA RIVER VALLEY	50	X				X		X	X		X		X	X	X					
PECHORO-ILYCHSKIY	10	X				X		X	X				X	X	X	X		X		X
SAYANO-SHUSHENSKIY	X					X		X	X		X		X		X	X				
SIKHOTE-ALINSKIY						X	X	X	X	X	X	X	X		X			X		X
SOKHONDINSKIY		X				X		X					X		X	X				X
TSENTRAL'NO-CHERNOZEMNY	40	X				X	X	X	X		X		X		X	X				
TSENTRAL'NO-LESNOY	50	X				X		X	X				X		X	X		X	X	
TSENTRAL'NOSIBIRSKIY								X	X		X				X	X				
VORONEZHSKIY		X				X			X		X		X	X	X	X				X
SLOVAKIA																				
EAST CARPATHIANS	X	X	100	1992					X						X					
POLANA	X	X	120	1992		X		X	X					X	X	X	X	X	X	
SLOVENSKY KRAS	30	X	250	1992		X		X	X	X		X	X		X	X	X			X
TATRY	X	X	850	1992	X	X	X	X	X	X		X	X	X	X	X	X	X		X

RESEARCH TOPICS

X = EXISTING PROGRAM ● = PRIORITY AREA

	HUMAN SYSTEMS							MANAGEMENT PRACTICES									
	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
RUSSIAN FEDERATION																	
ASTRAKHANSKIY							X			X		X					
KAVKAZSKIY				X			X	X		X	X	X	X	X		X	
KRONOTSKIY		X					X			X						X	
LAKE BAIKAL: BAIKALSKIY		X					X			X	X			X		X	X
LAKE BAIKAL: BARGUZINSKIY										X	X			X			
LAPLANDSKIY												X					
OKA RIVER VALLEY							X			X	X						X
PECHORO-ILYCHSKIY												X					
SAYANO-SHUSHENSKIY							X									X	
SIKHOTE-ALINSKIY							X					X				X	
SOKHONDINSKIY							X										
TSENTRAL'NO-CHERNOZEMNY							X	X								X	
TSENTRAL'NO-LESNOY											X	X	X			X	
TSENTRAL'NOSIBIRSKIY																X	
VORONEZHSKIY																X	
SLOVAKIA																	
EAST CARPATHIANS		X		X			X	X	X	X					X	X	X
POLANA							X	X		X	X		X		X	X	X
SLOVENSKY KRAS	X		X				X		X	X	X			X		X	X
TATRY			X		X	X	X	X	X	X	X	X		X	X	X	X

SITE SUPPORT

X = EXISTING PROGRAM ● = PRIORITY AREA

# = NUMBER OF STATIONS, SCIENTISTS, PLOTS, ETC.

	INFRASTRUCTURE						MONITORING AND RESEARCH FACILITIES							
	CONFERENCE FACILITIES	CURATORIAL FACILITY	LABORATORY	LIBRARY	LODGING FOR SCIENTISTS	ROAD ACCESS	AIR POLLUTION STATION	HYDROLOGICAL STATION	PERMANENT PLOTS: LAKE/STREAM	PERMANENT PLOTS: VEGETATION	WATERSHED RESEARCH SITE	WEATHER STATION	PERMANENT RESEARCH STAFF	NUMBER OF TYPES OF RECORDS, PROGRAMS, FACILITIES (MAXIMUM = 71)
RUSSIAN FEDERATION														
ASTRAKHANSKIY	X	X	X	X	15	X	X	X	3			X	17	41
KAVKAZSKIY	X		X	X	30		X	X			3		42	50
KRONOTSKIY			X	X					X	2			10	34
LAKE BAIKAL: BAIKALSKIY	X	X	X	X	X	X	X		X	2	X	X	8	44
LAKE BAIKAL: BARGUZINSKIY		X	X	X	5	X				4	X		13	30
LAPLANDSKIY			X	X							7		90	14
OKA RIVER VALLEY	X	X	X	X	30	X	X	X		X		X	22	36
PECHORO-ILYCHSKIY	X	X	X	X	2	X	X	X		2	21	X	75	37
SAYANO-SHUSHENSKIY	X	X		X		X							16	28
SIKHOTE-ALINSKIY	X	X	X	X	3	X	X	X	X	12		X	14	41
SOKHONDINSKIY	X	X	X	X	10	X						X	6	27
TSENTRAL'NO-CHERNOZEMNY	X	X	X	X	20	X		X			3	X	30	36
TSENTRAL'NO-LESNOY	X	X	X	X	12		X	X			2	X	20	41
TSENTRAL'NOSIBIRSKIY		X		X		X					20		9	17
VORONEZHSKIY	X	X	X	X	30	X						X	70	24
SLOVAKIA														
EAST CARPATHIANS				X	2	X		X		X		X		34
POLANA				X	8					X		X	40	38
SLOVENSKY KRAS	X			X	10	X				X		X	4	47
TATRY	X			X		X	X	X	X	X	X			58

BASIC RESOURCE INFORMATION

X = EXISTING PROGRAM # = NUMBER OF YEARS OF RECORDS ● = PRIORITY AREA

	BIOLOGICAL INVENTORY							ECOLOGICAL MONITORING										RESOURCE MAPS					
	INVERTEBRATES	MAMMALS	BIRDS	NONVASCULAR PLANTS	VASCULAR PLANTS	VERTEBRATES OTHER THAN MAMMALS	BIOLOGICAL SURVEY AND COLLECTIONS	AIR QUALITY	CLIMATE	FRESHWATER ECOSYSTEMS	GROUNDWATER HYDROLOGY	MARINE ECOSYSTEMS	PALEOECOLOGY	PRECIPITATION CHEMISTRY	SURFACE HYDROLOGY	VEGETATION DATA	WATER QUALITY	GEOLOGICAL	LAND USE	REGIONAL LAND TENURE	SOILS	TOPOGRAPHIC	VEGETATION
SPAIN																							
ALTO MANZANARES	6	10	10	X	20	10	2		X	●2	X				X	6	X	X	X	X	X	X	X
CANAL Y LOS TILES									2													X	X
DONANA		X	X			X	X		X	X	X				X	X	X	X	X	X		X	X
GRAZALEMA	X	X		X	X	X	X	X	X	X					X			X	X		X	X	X
MANCHA HUMEDA																							
MARISMAS DEL ODIEL	X	X		X	X	X	X	X	41	X	X	X		X	X	X	X	X	X		X	X	X
MONTSENY	5	10		25	25	10	X		58							25	5	X			X	X	X
ORDESA-VINAMALA							X																
SIERRA NEVADA	X	X	X	X	X	X		X	X	X			X		39	X	X	X	X	X	X	X	X
SIERRAS DE CAZORLA, SEGURA Y LAS VILLAS	X	X		X	X	X			X	X	X				X	X	X	X	X		X	X	X
URDAIBAI	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SWEDEN																							
LAKE TORNE AREA	X	X		X	X	X	X	X	80	X	X			X	X	X	X	X		X	X	X	X
SWITZERLAND																							
SUISSE	70	70		70	70	70	X		X	70					X	X		X				X	X
TURKMENISTAN																							
REPETEK		X	X			X	X	4	63		X		X		10	X		X	X	X	X	X	4

BASIC RESOURCE INFORMATION | RESEARCH TOPICS

X = EXISTING PROGRAM # = NUMBER OF YEARS OF RECORDS ● = PRIORITY AREA

	HISTORICAL RECORDS						ECOSYSTEM CYCLES AND PROCESSES							SPECIES POPULATIONS			POLLUTION			
	AERIAL PHOTOGRAPHS	BIBLIOGRAPHY	BIBLIOGRAPHY - NUMBER OF REFERENCES	BIBLIOGRAPHY - YEAR OF LAST REVISION	GEOGRAPHIC INFORMATION SYSTEM	HISTORY OF SCIENTIFIC STUDY	BIOGEOCHEMICAL CYCLES	COMPARATIVE ECOLOGICAL RESEARCH	ECOLOGICAL SUCCESSION	ECOSYSTEM MODELING	FIRE HISTORY/EFFECTS	HYDROLOGICAL CYCLE	SEDIMENTATION	PESTS AND DISEASES	RARE/ENDANGERED SPECIES	WILDLIFE POPULATION DYNAMICS	ACIDIC DEPOSITION	ATMOSPHERIC POLLUTANTS	PESTICIDES	WATER POLLUTANTS
SPAIN																				
ALTO MANZANARES	X	X	450	1992	●	X	X	X	●	●	X	X		X	X	X			X	
CANAL Y LOS TILES		X																		
DONANA		X	1500	1991		X	X	X	X	X	●	X		X	●	●		X	X	X
GRAZALEMA	X	X				X			X		X				X	X				
MANCHA HUMEDA																				
MARISMAS DEL ODIEL	11	X				X					X				X			X		X
MONTSENY	X	X				X	X	X	X		X			X		X		X		
ORDESA-VINAMALA									X	X		X			X	X				
SIERRA NEVADA	X	X	540	1992	X	X			X	X	X	X	X	●	X	X		X		●
SIERRAS DE CAZORLA, SEGURA Y LAS VILLAS	X	X		1992				X			X			X	●	●				
URDAIBAI	6	X	2000	1993	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X
SWEDEN																				
LAKE TORNE AREA	X	X	2000	1986		X	X	X	X	X			X	X	X	X	X	X	X	X
SWITZERLAND																				
SUISSE	2	X				X		X	X			X	X		X	X	X			
TURKMENISTAN																				
REPETEK	2	X			X	X		X	X			X				X		X		

RESEARCH TOPICS

X = EXISTING PROGRAM ● = PRIORITY AREA

	HUMAN SYSTEMS							MANAGEMENT PRACTICES									
	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
SPAIN																	
ALTO MANZANARES		X		X	X		●	●	X	X		X	X	X	X	X	X
CANAL Y LOS TILES																	
DONANA		X					X			X	X		X	X		X	
GRAZALEMA		X		X						X	X			X		X	
MANCHA HUMEDA																	
MARISMAS DEL ODIEL										X	X	X		X		X	X
MONTSENY		X										X		X			
ORDESA-VINAMALA		X								X	X			X			
SIERRA NEVADA	X	X	X		X	X	X	X		X	●	X	X	●	X	X	X
SIERRAS DE CAZORLA, SEGURA Y LAS VILLAS	X	X				X		X		●	●			●		X	
URDAIBAI	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
SWEDEN																	
LAKE TORNE AREA							X							X			
SWITZERLAND																	
SUISSE																X	
TURKMENISTAN																	
REPETEK			X		X	X	X			X				X	X	X	

SITE SUPPORT

X - EXISTING PROGRAM ● - PRIORITY AREA

# - NUMBER OF STATIONS, SCIENTISTS, PLOTS, ETC.

	INFRASTRUCTURE						MONITORING AND RESEARCH FACILITIES							
	CONFERENCE FACILITIES	CURATORIAL FACILITY	LABORATORY	LIBRARY	LODGING FOR SCIENTISTS	ROAD ACCESS	AIR POLLUTION STATION	HYDROLOGICAL STATION	PERMANENT PLOTS: LAKE/STREAM	PERMANENT PLOTS: VEGETATION	WATERSHED RESEARCH SITE	WEATHER STATION	PERMANENT RESEARCH STAFF	NUMBER OF TYPES OF RECORDS, PROGRAMS, FACILITIES (MAXIMUM = 71)
SPAIN														
ALTO MANZANARES	X	X	X	X	X	X		X	X	X		X	5	57
CANAL Y LOS TILES												X		5
DONANA	X	X	X	X	2	X		X	X		X	X	15	47
GRAZALEMA	X	X		X	52	X		X			X		6	36
MANCHA HUMEDA	X		X	X		X		X				X	4	7
MARISMAS DEL ODIEL		X				X				2			15	37
MONTSENY			X	X	8	X			2			X	2	33
ORDESA-VINAMALA			X	X		X		X					12	15
SIERRA NEVADA		X		X		X		X				X		53
SIERRAS DE CAZORLA, SEGURA Y LAS VILLAS	X	X	X		4	X		X				X		38
URDAIBAI	X	X	X	X	8	X					X	X		63
SWEDEN														
LAKE TORNE AREA	X	X	X	X	60	X	X	X		X	X	X	5	48
SWITZERLAND														
SUISSE	X		X	X	10					X		X		30
TURKMENISTAN														
REPETEK	X	X	X	X	200	X	X					X	23	42

BASIC RESOURCE INFORMATION

X = EXISTING PROGRAM # = NUMBER OF YEARS OF RECORDS ● = PRIORITY AREA

UKRAINE

	BIOLOGICAL INVENTORY							ECOLOGICAL MONITORING										RESOURCE MAPS					
	INVERTEBRATES	MAMMALS	BIRDS	NONVASCULAR PLANTS	VASCULAR PLANTS	VERTEBRATES OTHER THAN MAMMALS	BIOLOGICAL SURVEY AND COLLECTIONS	AIR QUALITY	CLIMATE	FRESHWATER ECOSYSTEMS	GROUNDWATER HYDROLOGY	MARINE ECOSYSTEMS	PALEOECOLOGY	PRECIPITATION CHEMISTRY	SURFACE HYDROLOGY	VEGETATION DATA	WATER QUALITY	GEOLOGICAL	LAND USE	REGIONAL LAND TENURE	SOILS	TOPOGRAPHIC	VEGETATION
ASKANIYA-NOVA	3	61		5	56	61	X		76		20				23	82	20	X	X		2		53
CARPATHIAN	X	X		X	X	X			X	X											X	X	X
CHERNOMORSKIY	34	46		8	59	36	X		52	12		17				59			X		X		X

UNITED KINGDOM

	BIOLOGICAL INVENTORY							ECOLOGICAL MONITORING										RESOURCE MAPS					
	INVERTEBRATES	MAMMALS	BIRDS	NONVASCULAR PLANTS	VASCULAR PLANTS	VERTEBRATES OTHER THAN MAMMALS	BIOLOGICAL SURVEY AND COLLECTIONS	AIR QUALITY	CLIMATE	FRESHWATER ECOSYSTEMS	GROUNDWATER HYDROLOGY	MARINE ECOSYSTEMS	PALEOECOLOGY	PRECIPITATION CHEMISTRY	SURFACE HYDROLOGY	VEGETATION DATA	WATER QUALITY	GEOLOGICAL	LAND USE	REGIONAL LAND TENURE	SOILS	TOPOGRAPHIC	VEGETATION
BEINN EIGHE	30	20		30	30	20	X		30									X				X	X
BRAUNTON BURROWS	20	20		20	20		X		40		20					30	•					X	X
CAERLAVEROCK		27																					
CAIRNSMORE OF FLEET, MERRICK-KELLS AND SILVER-FLOWE	X	X			X	X	X																
CLAISH MOSS	9	9		9	9	9	X																
DYFI	10	20		20	20	18	X	2	2					2	7	10						X	X
ISLE OF RUM	10	30		25	25	30	X		30	20					20	20		X			X	X	X
LOCH DRUIDIBEG	10	10			10	10	X			10						20		X				X	X
MOOR HOUSE-UPPER TEESDALE	24	24		30	30	24	X		18	18						X		X			X	X	X
NORTH NORFOLK COAST																							
ST. KILDA		25			25	25	X		25							25		X			X	X	X
TAYNISH							X																

BASIC RESOURCE INFORMATION | RESEARCH TOPICS

X - EXISTING PROGRAM   # - NUMBER OF YEARS OF RECORDS   ● - PRIORITY AREA

	HISTORICAL RECORDS						ECOSYSTEM CYCLES AND PROCESSES							SPECIES POPULATIONS			POLLUTION			
	AERIAL PHOTOGRAPHS	BIBLIOGRAPHY	BIBLIOGRAPHY - NUMBER OF REFERENCES	BIBLIOGRAPHY - YEAR OF LAST REVISION	GEOGRAPHIC INFORMATION SYSTEM	HISTORY OF SCIENTIFIC STUDY	BIOGEOCHEMICAL CYCLES	COMPARATIVE ECOLOGICAL RESEARCH	ECOLOGICAL SUCCESSION	ECOSYSTEM MODELING	FIRE HISTORY/EFFECTS	HYDROLOGICAL CYCLE	SEDIMENTATION	PESTS AND DISEASES	RARE/ENDANGERED SPECIES	WILDLIFE POPULATION DYNAMICS	ACIDIC DEPOSITION	ATMOSPHERIC POLLUTANTS	PESTICIDES	WATER POLLUTANTS
UKRAINE																				
ASKANIYA-NOVA		X				143	X	X	X		X			X	X	X			X	
CARPATHIAN	X	X			X	X									X	X	X			
CHERNOMORSKIY		X				X	X	X	X	X	X		X	X	X	X			X	X
UNITED KINGDOM																				
BEINN EIGHE	30							X							X		X			
BRAUNTON BURROWS	40	X							X		X				X					
CAERLAVEROCK	X														X	X				
CAIRNSMORE OF FLEET, MERRICK-KELLS AND SILVER-FLOWE	X							X			X					X	X			
CLAISH MOSS	40	X				X								X		X				
DYFI	20	X									X						X	X		
ISLE OF RUM	40	X				X		X								X				
LOCH DRUIDIBEG	10	X													X	X				
MOOR HOUSE-UPPER TEESDALE	9							X							X	X	X	X		
NORTH NORFOLK COAST																				
ST. KILDA	10	X				X		X							X	X			X	
TAYNISH													X							

RESEARCH TOPICS

X = EXISTING PROGRAM ✱ = PRIORITY AREA

UKRAINE

	HUMAN SYSTEMS							MANAGEMENT PRACTICES									
	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
ASKANIYA-NOVA		X					X	X	X	X	X		X	X		X	
CARPATHIAN										X			X		X	X	
CHERNOMORSKIY		X					X	X	X	X	X		X			X	

UNITED KINGDOM

	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
BEINN EIGHE							X			X	X						
BRAUNTON BURROWS										X				X			
CAERLAVEROCK																	
CAIRNSMORE OF FLEET, MERRICK-KELLS AND SILVER-FLOWE								X									
CLAISH MOSS														X			
DYFI							X			X		X		X			
ISLE OF RUM										X							
LOCH DRUIDIBEG																	
MOOR HOUSE-UPPER TEESDALE												X					
NORTH NORFOLK COAST																	
ST. KILDA								X			X		X				
TAYNISH														X			

SITE SUPPORT

X = EXISTING PROGRAM ● = PRIORITY AREA

= NUMBER OF STATIONS, SCIENTISTS, PLOTS, ETC.

	INFRASTRUCTURE						MONITORING AND RESEARCH FACILITIES							
	CONFERENCE FACILITIES	CURATORIAL FACILITY	LABORATORY	LIBRARY	LODGING FOR SCIENTISTS	ROAD ACCESS	AIR POLLUTION STATION	HYDROLOGICAL STATION	PERMANENT PLOTS: LAKE/STREAM	PERMANENT PLOTS: VEGETATION	WATERSHED RESEARCH SITE	WEATHER STATION	PERMANENT RESEARCH STAFF	NUMBER OF TYPES OF RECORDS, PROGRAMS, FACILITIES (MAXIMUM = 71)
UKRAINE														
ASKANIYA-NOVA	X		X		10	X				X			22	40
CARPATHIAN	X	X	X	X	X					X	X	X		29
CHERNOMORSKIY	X	X	X	X	92	X			8	X			9	43
UNITED KINGDOM														
BEINN EIGHE	X	X	X	X	14	X	X					X	X	26
BRAUNTON BURROWS														17
CAERLAVEROCK						X								5
CAIRNSMORE OF FLEET, MERRICK-KELLS AND SILVER-FLOWE			X		2	X								14
CLAISH MOSS														12
DYFI						X		X				X		25
ISLE OF RUM	X	X	X	X	100	X						X		27
LOCH DRUIDIBEG						X								15
MOOR HOUSE-UPPER TEESDALE			X			X	X			X		X		25
NORTH NORFOLK COAST														0
ST. KILDA					12							X		22
TAYNISH					X	X								5

BASIC RESOURCE INFORMATION

X = EXISTING PROGRAM   # = NUMBER OF YEARS OF RECORDS   ● = PRIORITY AREA

UNITED STATES

	BIOLOGICAL INVENTORY							ECOLOGICAL MONITORING										RESOURCE MAPS					
	INVERTEBRATES	MAMMALS	BIRDS	NONVASCULAR PLANTS	VASCULAR PLANTS	VERTEBRATES OTHER THAN MAMMALS	BIOLOGICAL SURVEY AND COLLECTIONS	AIR QUALITY	CLIMATE	FRESHWATER ECOSYSTEMS	GROUNDWATER HYDROLOGY	MARINE ECOSYSTEMS	PALEOECOLOGY	PRECIPITATION CHEMISTRY	SURFACE HYDROLOGY	VEGETATION DATA	WATER QUALITY	GEOLOGICAL	LAND USE	REGIONAL LAND TENURE	SOILS	TOPOGRAPHIC	VEGETATION
ALEUTIAN ISLANDS		30			20	30	X		25	20	25	20			25	20			10			X	X
BEAVER CREEK									20						15			X			X	X	X
BIG BEND	X	X	X	X	X	X	X	5	40	X	X		X	6	20	X	20	X			X	X	X
BIG THICKET	14	14		14	14	14	X	4	X	14					14	14	14	X	X	X	X	X	X
CALIFORNIA COAST RANGES	X	X		X	X	X	●	X	X	X	X	X			X	X	X	X	X		X	X	X
CAROLINIAN-SOUTH ATLANTIC	X	X	X	X	X	X	X	X	X	52	X	X		X	X	X	X	X	X		X	X	X
CASCADE HEAD	3	3	3	2	10		2		50	2		10	X			40		X	50	X	X	X	X
CENTRAL CALIFORNIA COAST	X	2	X	X	X	2	●	X	X	X	X	X		7	X	X	X	X	X		5	X	X
CENTRAL GULF COASTAL PLAIN	X	X	X		X	X	X		85	34	39	39	X		70	X	9	X	X	X	X	X	X
CENTRAL PLAINS	8	5			●50	5	X	6	●50					6	3	●50		X	50		X	X	
CHAMPLAIN-ADIRONDACK	X	X	50	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	100	X	X	X
CHANNEL ISLANDS	X	X	X	X	X	X	X	12	12			X			6	X	12	X	X		X	X	X
CORAM	4	5	4	3	21	5		1.5	36					1.5	4	21		1.5	1.5	59	1.5	1.5	1.5
DENALI	30	90	90	70	80	90	X	12	65	4			30	12	X	30	X	X	60	90	X	X	X
DESERT					●		X		X							●					X	X	●
EVERGLADES		30	X		10	30	X	5	40	25	40	25		5	40	30	20	X			X	X	X
FRASER		5				5		8	40		5				40	40	X	X			X	X	X
GLACIER	X	X	21	X	X	X	X	10	X	X			X	X	X		8	X		24		X	

	BASIC RESOURCE INFORMATION						RESEARCH TOPICS													

X - EXISTING PROGRAM # - NUMBER OF YEARS OF RECORDS ● - PRIORITY AREA

UNITED STATES	HISTORICAL RECORDS						ECOSYSTEM CYCLES AND PROCESSES							SPECIES POPULATIONS			POLLUTION			
	AERIAL PHOTOGRAPHS	BIBLIOGRAPHY	BIBLIOGRAPHY - NUMBER OF REFERENCES	BIBLIOGRAPHY - YEAR OF LAST REVISION	GEOGRAPHIC INFORMATION SYSTEM	HISTORY OF SCIENTIFIC STUDY	BIOGEOCHEMICAL CYCLES	COMPARATIVE ECOLOGICAL RESEARCH	ECOLOGICAL SUCCESSION	ECOSYSTEM MODELING	FIRE HISTORY/EFFECTS	HYDROLOGICAL CYCLE	SEDIMENTATION	PESTS AND DISEASES	RARE/ENDANGERED SPECIES	WILDLIFE POPULATION DYNAMICS	ACIDIC DEPOSITION	ATMOSPHERIC POLLUTANTS	PESTICIDES	WATER POLLUTANTS
ALEUTIAN ISLANDS	30					X		X							X	X		X		
BEAVER CREEK						X				X	X	X								
BIG BEND	2	X	675	1985	X	X			X		X	X		X	X	X	X	X	X	X
BIG THICKET	61	X	123	1987	14	X			X		X				X			X		X
CALIFORNIA COAST RANGES	20	X			X	X		X	●	X	X	X	●	X	X	X	X			X
CAROLINIAN-SOUTH ATLANTIC	20	X	2000	1992	X	X	10	X	X		X	15	X		X	X	X	X		X
CASCADE HEAD	40	50	200	1991		X	X	10	2	X	X		2	2	10	5	X	X		
CENTRAL CALIFORNIA COAST	50	X			X	X	X	X	X	X	X	X	X	X	●	●	X	X	X	X
CENTRAL GULF COASTAL PLAIN	3	X	3000	1992	X	X	X	X	X	●	X	X	X	X	●	X	X	X	X	●
CENTRAL PLAINS	50	X	200	1983	X	X	X	X	X	X	X	X				X	X	X		
CHAMPLAIN-ADIRONDACK	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CHANNEL ISLANDS	20	X			X	X		X	X	X	X			X	X	X		X	X	X
CORAM	36	X	100	1992	5	1.5			●21		2	4	4	6		●4				
DENALI	30	X	600	1992		X	X	X	X	X	X	X	X			X	X	X		X
DESERT		X				X		X	●	●		X		X						
EVERGLADES	40	X			4		X	X	X	X	X	X			X	X	X	X	X	X
FRASER	4					X		X	X				X	X		X				
GLACIER	X	5	2500	1991	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X

RESEARCH TOPICS

X = EXISTING PROGRAM ● = PRIORITY AREA

UNITED STATES

	HUMAN SYSTEMS							MANAGEMENT PRACTICES									
	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
ALEUTIAN ISLANDS		X					X			X		X					
BEAVER CREEK																	
BIG BEND	X	X	X	X						X		X		X		X	
BIG THICKET										X		X		X			
CALIFORNIA COAST RANGES		X					X			●	X			X		X	X
CAROLINIAN-SOUTH ATLANTIC		X					X	X	X	X	X			X		X	
CASCADE HEAD	X	X	X		X					10		X		X	3		
CENTRAL CALIFORNIA COAST		X					●	X	X	●	X		X	X		X	X
CENTRAL GULF COASTAL PLAIN	X	X	X		X	X	X		X	X				X	X	X	●
CENTRAL PLAINS	X		X		X			X				X	●			X	X
CHAMPLAIN-ADIRONDACK	50	X	50	X	50	25	X	X	X	X	X	X		X	25	X	X
CHANNEL ISLANDS		X		X			X	X		X			X	X		X	X
CORAM										4					41		
DENALI	30	X	15	X	25	20	X				X	X		X	25		
DESERT													X				
EVERGLADES							X			X	X	X	X	X		X	X
FRASER							X							X			X
GLACIER	X									X	X	X		X			

SITE SUPPORT

X = EXISTING PROGRAM ● = PRIORITY AREA

= NUMBER OF STATIONS, SCIENTISTS, PLOTS, ETC.

UNITED STATES

	INFRASTRUCTURE						MONITORING AND RESEARCH FACILITIES							
	CONFERENCE FACILITIES	CURATORIAL FACILITY	LABORATORY	LIBRARY	LODGING FOR SCIENTISTS	ROAD ACCESS	AIR POLLUTION STATION	HYDROLOGICAL STATION	PERMANENT PLOTS: LAKE/STREAM	PERMANENT PLOTS: VEGETATION	WATERSHED RESEARCH SITE	WEATHER STATION	PERMANENT RESEARCH STAFF	NUMBER OF TYPES OF RECORDS, PROGRAMS, FACILITIES (MAXIMUM = 71)
ALEUTIAN ISLANDS				X								X	X	26
BEAVER CREEK								X				X		12
BIG BEND	X	X	X	X	12	X	X	X		30		X	5	53
BIG THICKET		X		X	8	X	X			2		X	3	38
CALIFORNIA COAST RANGES	X	X	X	X	X	X	X	X	X	X	X	X	27	54
CAROLINIAN-SOUTH ATLANTIC	X	X	X	X	X	X	X	X		X	X	X	25	56
CASCADE HEAD	X				X	X	X			X		X	X	46
CENTRAL CALIFORNIA COAST	X	X	X	X	60	X	X	X		X	X	X	125	61
CENTRAL GULF COASTAL PLAIN	X	X	X	X		X			14	3		X	X	59
CENTRAL PLAINS	X	X	X		8	X	X				6	X	4	44
CHAMPLAIN-ADIRONDACK	X	X	X	X	X	X	X	X	X	X	X	X	X	69
CHANNEL ISLANDS	X	X	X	X	X	X	X	X		X		5	2	52
CORAM	2				7	23		19		4		41	8	36
DENALI	X	X	X	X	X	X	X	X	X	X		X	2	58
DESERT		X				X						X		18
EVERGLADES	X	X		X	X		X	X		X		X	58	50
FRASER	X		X			X		X				X	7	28
GLACIER	X	X	X	X	X	X	X	X	X	X	X	X	X	52

BASIC RESOURCE INFORMATION

X = EXISTING PROGRAM   # = NUMBER OF YEARS OF RECORDS   ● = PRIORITY AREA

U.S.A. (CONT.)

	BIOLOGICAL INVENTORY							ECOLOGICAL MONITORING										RESOURCE MAPS					
	INVERTEBRATES	MAMMALS	BIRDS	NONVASCULAR PLANTS	VASCULAR PLANTS	VERTEBRATES OTHER THAN MAMMALS	BIOLOGICAL SURVEY AND COLLECTIONS	AIR QUALITY	CLIMATE	FRESHWATER ECOSYSTEMS	GROUNDWATER HYDROLOGY	MARINE ECOSYSTEMS	PALEOECOLOGY	PRECIPITATION CHEMISTRY	SURFACE HYDROLOGY	VEGETATION DATA	WATER QUALITY	GEOLOGICAL	LAND USE	REGIONAL LAND TENURE	SOILS	TOPOGRAPHIC	VEGETATION
GLACIER BAY - ADMIRALTY ISLAND	10	15		10	20	10	X		20	3		20			3	70		X	20				
GUANICA				10	10		X		5							20							X
H.J. ANDREWS	15	15		15	20	15	X		35	15				20	35	20	25	X	40		X	X	X
HAWAIIAN ISLANDS	●	10		10.2	20	X	15	3	42	1.5						10		X			X	X	X
HUBBARD BROOK	X	X	25	X	X	X	X	3	35	35	12		X	28	35	26	28	X		X	X	X	X
ISLE ROYALE		75	10	3	75		X	10	50				X	15	10	75	10	X	45	19	2	X	X
JORNADA	X	X	2	X	X	X	X	X	72		X				15	71	X	X			X	X	X
KONZA PRAIRIE	X	5	X	X	X	X	X		X	3	X			3	X	X	X	X	X		X	X	X
LAND BETWEEN THE LAKES	5	25	26	5	25	25	25	25	25	45	5			25	10	25	25	40	25	29	10	36	25
LUQUILLO				X	60		X	2	50	10	X			8	12	40	5	X	30		X	X	X
MAMMOTH CAVE AREA	10	15	24	10	15	X	X	8	57	5	25		10	8	3	3	20	20	3	51	X	30	X
MOJAVE AND COLORADO DESERTS	X	●22	X	X	X	X	X	X	X	X	X	X	25	X	X	X	X	X	X	60	X	X	X
NEW JERSEY PINELANDS	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	12	X	X	X
NIWOT RIDGE	5	9		30	30	X	X	23	40	5	10			10	10	15	10	X	X		X	X	X
NOATAK		13	X		10	X	11		10	8						X		X	X	X	X	X	3
OLYMPIC		X	30		X	X	X	X	X	X	X		10	X	X	X	X	X		54		X	X
ORGAN PIPE CACTUS	50	50	50		50	50	X	11	50	47	53			11	71	52	10		X	X	X	X	X
ROCKY MOUNTAIN	7	60	50	2	60	60	10	10	75	25	15		2	10	10	60	10	X	X	X	X	X	X

BASIC RESOURCE INFORMATION | RESEARCH TOPICS

X = EXISTING PROGRAM # = NUMBER OF YEARS OF RECORDS 🍎 = PRIORITY AREA

U.S.A. (CONT.)

	HISTORICAL RECORDS						ECOSYSTEM CYCLES AND PROCESSES							SPECIES POPULATIONS			POLLUTION			
	AERIAL PHOTOGRAPHS	BIBLIOGRAPHY	BIBLIOGRAPHY - NUMBER OF REFERENCES	BIBLIOGRAPHY - YEAR OF LAST REVISION	GEOGRAPHIC INFORMATION SYSTEM	HISTORY OF SCIENTIFIC STUDY	BIOGEOCHEMICAL CYCLES	COMPARATIVE ECOLOGICAL RESEARCH	ECOLOGICAL SUCCESSION	ECOSYSTEM MODELING	FIRE HISTORY/EFFECTS	HYDROLOGICAL CYCLE	SEDIMENTATION	PESTS AND DISEASES	RARE/ENDANGERED SPECIES	WILDLIFE POPULATION DYNAMICS	ACIDIC DEPOSITION	ATMOSPHERIC POLLUTANTS	PESTICIDES	WATER POLLUTANTS
GLACIER BAY - ADMIRALTY ISLAND	60								X				X		X	X	X			
GUANICA	40	X						X	X	X		X			X	X				
H.J. ANDREWS	35	X				X	X	X	X	X	X	X	X	X	X	X				X
HAWAIIAN ISLANDS	5.2	X			X	X		15	15		10		X	10	🍎10	X				
HUBBARD BROOK	X	X	1148	1991	X	X	X	X	X	X		X	X	X		X	X	X		X
ISLE ROYALE	55	X	1060	1992	X	X	X	X	X	X	X				X	X	10	X		
JORNADA	3	X	400	1990	X	X		X	X	X	X	X				X				
KONZA PRAIRIE	30	X	375	1993	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LAND BETWEEN THE LAKES	60	27	402	1992	2	X	5	25	25	3	3	40	40	10	25	20	25	25	5	40
LUQUILLO	50	X			3	X	X	X	X	X		X	X		X	X	6			
MAMMOTH CAVE AREA	20	90	2000	1991	3	X				X			X		15	X	8	8	2	3
MOJAVE AND COLORADO DESERTS	X	X			X	X	X	X	X	X	X	X		X	🍎22	🍎	X	X	X	X
NEW JERSEY PINELANDS	X	X	1500	1989		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
NIWOT RIDGE	6	X			2	X	X	X	X	8	X	X				X	10	15		
NOATAK	11	X				X		X	X	X	11	X				11		X		
OLYMPIC	X	X	2000	1988			X		X		X		X		X	X	X	X		X
ORGAN PIPE CACTUS	16	X			X	X		X	X	X		X	X	X	X	X	X	X	X	X
ROCKY MOUNTAIN	2	X	385	1992	X		12		X	12	14		X	X	X	X	X	X		X

RESEARCH TOPICS

X = EXISTING PROGRAM ● = PRIORITY AREA

U.S.A. (CONT.)

	HUMAN SYSTEMS							MANAGEMENT PRACTICES									
	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
GLACIER BAY - ADMIRALTY ISLAND							X									X	
GUANICA										X				X			
H.J. ANDREWS							X			X	X					X	X
HAWAIIAN ISLANDS										10	2						
HUBBARD BROOK	X		300		X		X			X						X	X
ISLE ROYALE	30	X		X	60					X	X			X			X
JORNADA	2	X					X	X	X	X			X		77	X	X
KONZA PRAIRIE	X	X		X	X	X	X	X					X		X	X	X
LAND BETWEEN THE LAKES	34	12	21	12	21	23	20	25	40	25	10	15	40	25	10	40	40
LUQUILLO							X			X				X		X	X
MAMMOTH CAVE AREA	40	X	51		51	51				5				X	30	X	X
MOJAVE AND COLORADO DESERTS		●		X	60		X			X		X		X			X
NEW JERSEY PINELANDS	12	X	12	X	12	12	X	X		X	X	X		X	12	X	X
NIWOT RIDGE				X			X			X				X			
NOATAK	X	X	X		X		X		X					10			
OLYMPIC	10	X	5		3	5	X			X	X	X				X	
ORGAN PIPE CACTUS				X			X	X	X	X			X	X		X	X
ROCKY MOUNTAIN	X		X		X	X				X		X		X			

SITE SUPPORT

X = EXISTING PROGRAM ● = PRIORITY AREA

= NUMBER OF STATIONS, SCIENTISTS, PLOTS, ETC.

U.S.A. (CONT.)

	INFRASTRUCTURE						MONITORING AND RESEARCH FACILITIES								
	CONFERENCE FACILITIES	CURATORIAL FACILITY	LABORATORY	LIBRARY	LODGING FOR SCIENTISTS	ROAD ACCESS	AIR POLLUTION STATION	HYDROLOGICAL STATION	PERMANENT PLOTS: LAKE/STREAM	PERMANENT PLOTS: VEGETATION	WATERSHED RESEARCH SITE	WEATHER STATION	PERMANENT RESEARCH STAFF		NUMBER OF TYPES OF RECORDS, PROGRAMS, FACILITIES (MAXIMUM = 71)
GLACIER BAY - ADMIRALTY ISLAND			X	X	5						4	X	X		27
GUANICA						X						X	X		19
H.J. ANDREWS	X	X	X	X		X	X	X		20	11	X	2		47
HAWAIIAN ISLANDS	X		X	X	10	X				X		X	4		35
HUBBARD BROOK	X		X		8	X	X	X		X	9	X	3		53
ISLE ROYALE	X	X	X	X	6		X	X	X	X	2	X			50
JORNADA	X		X	X	X	X		X		70	12	X	15		47
KONZA PRAIRIE	X	X	X		X	X	X	X	X	4	4	X	X		58
LAND BETWEEN THE LAKES	5	2	3	3	10	X	2	3	4	147	2	2	17		69
LUQUILLO	X	X	X	X	X	X		X	X	X	3	X	9		46
MAMMOTH CAVE AREA	10	10	10	20	3	X	8	10	X	50	2	57	20		57
MOJAVE AND COLORADO DESERTS	X	X	2	X	12	X	X	30		10		X	9		59
NEW JERSEY PINELANDS	X	X	X	X	6	X	X	X	X	X	X	X	4		66
NIWOT RIDGE	X	X	3	X	70	X	X	X		120		5	4		47
NOATAK	10	X		X	6					X		2	1		38
OLYMPIC	X	X		X	X		X	X		X	X	X	4		49
ORGAN PIPE CACTUS	X	X	X	X	X	X	X	X		X	X	X			55
ROCKY MOUNTAIN	X	X	X	X		X	15	X	X	24	X	X	0		54

BASIC RESOURCE INFORMATION

X - EXISTING PROGRAM # - NUMBER OF YEARS OF RECORDS ◆ - PRIORITY AREA

	BIOLOGICAL INVENTORY							ECOLOGICAL MONITORING										RESOURCE MAPS					
	INVERTEBRATES	MAMMALS	BIRDS	NONVASCULAR PLANTS	VASCULAR PLANTS	VERTEBRATES OTHER THAN MAMMALS	BIOLOGICAL SURVEY AND COLLECTIONS	AIR QUALITY	CLIMATE	FRESHWATER ECOSYSTEMS	GROUNDWATER HYDROLOGY	MARINE ECOSYSTEMS	PALEOECOLOGY	PRECIPITATION CHEMISTRY	SURFACE HYDROLOGY	VEGETATION DATA	WATER QUALITY	GEOLOGICAL	LAND USE	REGIONAL LAND TENURE	SOILS	TOPOGRAPHIC	VEGETATION
U.S.A. (CONT.)																							
SAN DIMAS		X	X	X	X	X	X	10	60					10	55	50	10	X			X	X	X
SAN JOAQUIN	2	50		50	50	50	X		50							50		X	50		X	X	
SEQUOIA-KINGS CANYON		X	10	X	X	X	X	15	70	10			5	12	X	X	X	X	X	X	X	X	X
SOUTH ATLANTIC COASTAL PLAIN	12	12	15		12	12	13	10	50	12	7			9	7	3	4	7		9	3	40	12
SOUTHERN APPALACHIAN	50	50	X	60	50	50	X	◆13	60	60	X			13	X	50	X	X	X		X	X	X
STANISLAUS-TUOLUMNE									20									X	10			X	X
THREE SISTERS					X		X									4						X	
UNIVERSITY OF MICHIGAN	X	60	60	50	50		X		73	78	X		X	14		50	25	X	X		X	X	X
VIRGIN ISLANDS	X	X			3	X			25		X	26			X	X		X	X		X	X	X
VIRGINIA COAST		17	18		X	18	X		5		5	X	X		X	X	2	X	X	4	X	X	X
YELLOWSTONE	64	103	61	46	46	64	X	6	103	101	102		5	10	68	57	X	X		X		X	X
UZBEKISTAN																							
CHATKAL MOUNTAINS							X	3	X	3					15	40	3				X		
FORMER YUGOSLAV REPUBLIC																							
TARA RIVER BASIN	10	10		90	90	15	2	2	40	10	10				10	8	8	5			X	X	X

BASIC RESOURCE INFORMATION | RESEARCH TOPICS

X = EXISTING PROGRAM # = NUMBER OF YEARS OF RECORDS ● = PRIORITY AREA

	HISTORICAL RECORDS						ECOSYSTEM CYCLES AND PROCESSES							SPECIES POPULATIONS			POLLUTION			
	AERIAL PHOTOGRAPHS	BIBLIOGRAPHY	BIBLIOGRAPHY - NUMBER OF REFERENCES	BIBLIOGRAPHY - YEAR OF LAST REVISION	GEOGRAPHIC INFORMATION SYSTEM	HISTORY OF SCIENTIFIC STUDY	BIOGEOCHEMICAL CYCLES	COMPARATIVE ECOLOGICAL RESEARCH	ECOLOGICAL SUCCESSION	ECOSYSTEM MODELING	FIRE HISTORY/EFFECTS	HYDROLOGICAL CYCLE	SEDIMENTATION	PESTS AND DISEASES	RARE/ENDANGERED SPECIES	WILDLIFE POPULATION DYNAMICS	ACIDIC DEPOSITION	ATMOSPHERIC POLLUTANTS	PESTICIDES	WATER POLLUTANTS
U.S.A. (CONT.)																				
SAN DIMAS	30	X	643	1993		X	X	X	X	X	X	X	X	X		X	X	X		X
SAN JOAQUIN	30	50				X		X		X	X	X	X			X				
SEQUOIA-KINGS CANYON	X	X	200	1991	6	X	X	X	X	X	X	X			X		X	X		X
SOUTH ATLANTIC COASTAL PLAIN	3	10	50	1992	X	X	●13	2	3	X	X	7	X	X	13	X	9	●11		4
SOUTHERN APPALACHIAN	32	X			5	X	X	X	X	X	X	X	X	X	●	X	X	X	X	X
STANISLAUS-TUOLUMNE	4					X							X	X						
THREE SISTERS	40	X						X	X								X			
UNIVERSITY OF MICHIGAN	50	78			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VIRGIN ISLANDS	25	X				X	X	X	X		X				X	X				
VIRGINIA COAST	50				2		5	X	5	5		5	5		18	18				2
YELLOWSTONE	17	X	100	1992	4	X	X	X	X	X	X	X	X	X	X	X	X	X		X
UZBEKISTAN																				
CHATKAL MOUNTAINS		X											X		X	X		X	X	X
FORMER YUGOSLAV REPUBLIC																				
TARA RIVER BASIN	2	110						2	2				2		2	2		2	X	2

RESEARCH TOPICS

X - EXISTING PROGRAM ♦ - PRIORITY AREA

	HUMAN SYSTEMS							MANAGEMENT PRACTICES									
	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
U.S.A. (CONT.)																	
SAN DIMAS					X		X			X						X	X
SAN JOAQUIN								X									
SEQUOIA-KINGS CANYON	X	X					X			X			X				
SOUTH ATLANTIC COASTAL PLAIN	9		9		9	2	12			X				4		2	7
SOUTHERN APPALACHIAN		X		X			X	X		X	X			X		X	X
STANISLAUS-TUOLUMNE																	
THREE SISTERS																	
UNIVERSITY OF MICHIGAN					X		X		X	X	X			X		X	X
VIRGIN ISLANDS		X									X			X			X
VIRGINIA COAST			2		4	2	X	X	X					X	X	X	X
YELLOWSTONE	51				120	2	X			X			X	X	35	X	X
UZBEKISTAN																	
CHATKAL MOUNTAINS							X					X	X			X	
FORMER YUGOSLAV REPUBLIC																	
TARA RIVER BASIN							2	X		2		2	X			X	2

SITE SUPPORT

X = EXISTING PROGRAM ● = PRIORITY AREA

# = NUMBER OF STATIONS, SCIENTISTS, PLOTS, ETC.

	INFRASTRUCTURE						MONITORING AND RESEARCH FACILITIES							
	CONFERENCE FACILITIES	CURATORIAL FACILITY	LABORATORY	LIBRARY	LODGING FOR SCIENTISTS	ROAD ACCESS	AIR POLLUTION STATION	HYDROLOGICAL STATION	PERMANENT PLOTS: LAKE/STREAM	PERMANENT PLOTS: VEGETATION	WATERSHED RESEARCH SITE	WEATHER STATION	PERMANENT RESEARCH STAFF	NUMBER OF TYPES OF RECORDS, PROGRAMS, FACILITIES (MAXIMUM = 71)
U.S.A. (CONT.)														
SAN DIMAS	X		X	X	20	X	X	X		6	34	X	2	47
SAN JOAQUIN	X	X	X	X		X						X	2	29
SEQUOIA-KINGS CANYON	X	X	X	X	X	X	X	X		X	X	X	4	51
SOUTH ATLANTIC COASTAL PLAIN	X	X		X	8	X	11	4		10		X		54
SOUTHERN APPALACHIAN	X	X	4	X	6	X	X	X	16	500	X	7	5	60
STANISLAUS-TUOLUMNE						X								10
THREE SISTERS					12									10
UNIVERSITY OF MICHIGAN	X	X	X	X	150	X	X		X	50	2	X	2	56
VIRGIN ISLANDS	X	X	X	X	8	X			4		3	X	3	37
VIRGINIA COAST	X		X		17	X		X		X	4	4	3	48
YELLOWSTONE	X	X	X	X		X	X	X	X	X	X	X	35	59
UZBEKISTAN														
CHATKAL MOUNTAINS	X		X	X	5		X	X				X	19	27
FORMER YUGOSLAV REPUBLIC														
TARA RIVER BASIN	X	2	2	2	X	2	2	X			27	X	27	45

Tabular Data Summaries

Country Biosphere Reserves by Biome

Data Summaries by Biome

Data Bases by Frequency

DISTRIBUTION OF BIOSPHERE RESERVES BY COUNTRY AND BIOME

	TEMPERATE BROAD-LEAF FOREST	COMPLEX MOUNTAIN SYSTEMS	EVERGREEN SCLERO-PHYLLOUS WOODLAND	TEMPERATE NEEDLE-LEAF FOREST	TEMPERATE GRASSLAND	MIXED ISLAND SYSTEMS	WARM DESERT	TUNDRA	TEMPERATE RAINFOREST	COLD DESERT	LAKE SYSTEMS	TROPICAL DRY FOREST	COUNTRY TOTAL	COUNTRY % OF TOTAL
AUSTRIA	1	3	0	0	0	0	0	0	0	0	0	0	4	2%
BELARUS	1	0	0	0	0	0	0	0	0	0	0	0	1	1%
BULGARIA	1	16	0	0	0	0	0	0	0	0	0	0	17	10%
CANADA	2	1	0	2	0	0	0	0	0	0	1	0	6	3%
CROATIA	0	0	1	0	0	0	0	0	0	0	0	0	1	1%
CZECH REPUBLIC	2	2	0	0	0	0	0	0	0	0	0	0	4	2%
CZECH. & POLAND	0	1	0	0	0	0	0	0	0	0	0	0	1	1%
DENMARK	0	0	0	0	0	0	0	1	0	0	0	0	1	1%
ESTONIA	1	0	0	0	0	0	0	0	0	0	0	0	1	1%
FINLAND	0	0	0	1	0	0	0	0	0	0	0	0	1	1%
FRANCE	3	0	3	0	0	2	0	0	0	0	0	0	8	5%
GERMANY	10	2	0	0	0	0	0	0	0	0	0	0	12	7%
GREECE	0	0	2	0	0	0	0	0	0	0	0	0	2	1%
HUNGARY	5	0	0	0	0	0	0	0	0	0	0	0	5	3%
IRELAND	2	0	0	0	0	0	0	0	0	0	0	0	2	1%
ITALY	0	1	2	0	0	0	0	0	0	0	0	0	3	2%
KYRG. & UZBEK.	0	1	0	0	0	0	0	0	0	0	0	0	1	1%
NETHERLANDS	1	0	0	0	0	0	0	0	0	0	0	0	1	1%
NORWAY	0	0	0	0	0	0	0	1	0	0	0	0	1	1%
POLAND	4	0	0	0	0	0	0	0	0	0	0	0	4	2%
POLAND & SLOVAKIA	2	0	0	0	0	0	0	0	0	0	0	0	2	1%
PORTUGAL	0	0	1	0	0	0	0	0	0	0	0	0	1	1%
ROMANIA	2	0	0	0	1	0	0	0	0	0	0	0	3	2%
RUSSIAN FEDERATION	6	2	0	4	1	0	0	0	0	1	0	0	14	8%
SLOVAKIA	2	0	0	0	0	0	0	0	0	0	0	0	2	1%
SPAIN	0	0	10	0	0	1	0	0	0	0	0	0	11	6%
SWEDEN	0	0	0	0	0	0	0	1	0	0	0	0	1	1%
SWITZERLAND	0	1	0	0	0	0	0	0	0	0	0	0	1	1%
TURKMENISTAN	0	0	0	0	0	0	0	0	0	1	0	0	1	1%
UKRAINE	1	0	0	0	2	0	0	0	0	0	0	0	3	2%
UNITED KINGDOM	6	6	0	0	0	0	0	0	0	0	0	0	12	7%
UNITED STATES	11	10	4	1	3	4	5	2	4	1	1	1	47	27%
YUGOSLAVIA	0	1	0	0	0	0	0	0	0	0	0	0	1	1%
BIOME TOTAL	63	47	23	8	7	7	5	5	4	3	2	1	175	
% OF EUROMAB BR	36%	27%	13%	5%	4%	4%	3%	3%	2%	2%	1%	1%		

SUMMARY INFORMATION

BASIC RESOURCE INFORMATION

NUMBER OF BIOSPHERE RESERVES IN BIOME REPORTING INFORMATION FOR CATEGORY

BIOME:	BIOLOGICAL INVENTORY							ECOLOGICAL MONITORING										RESOURCE MAPS					
	INVERTEBRATES	MAMMALS	BIRDS	NONVASCULAR PLANTS	VASCULAR PLANTS	VERTEBRATES OTHER THAN MAMMALS	BIOLOGICAL SURVEY AND COLLECTIONS	AIR QUALITY	CLIMATE	FRESHWATER ECOSYSTEMS	GROUNDWATER HYDROLOGY	MARINE ECOSYSTEMS	PALEOECOLOGY	PRECIPITATION CHEMISTRY	SURFACE HYDROLOGY	VEGETATION DATA	WATER QUALITY	GEOLOGICAL	LAND USE	REGIONAL LAND TENURE	SOILS	TOPOGRAPHIC	VEGETATION
TEMPERATE RAINFOREST	3	4	2	3	4	3	4	2	4	4	2	3	2	1	3	4	2	4	3	2	2	3	3
TEMPERATE NEEDLE-LEAF FOREST	5	8	3	5	8	7	7	5	6	4	2	1	1	4	6	4	5	5	3	2	5	5	7
TROPICAL DRY FOREST	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	1	1	1
TEMPERATE BROAD-LEAF FOREST	56	60	22	50	57	56	57	35	57	42	40	13	11	30	52	42	49	48	38	13	49	55	56
EVERGREEN SCLEROPHYLLOUS WOODLAND	16	18	11	17	20	20	18	8	20	12	8	5	2	6	16	19	15	20	18	7	19	20	17
WARM DESERT	4	4	4	3	4	4	4	4	5	3	4	1	2	3	5	4	4	4	2	2	5	5	5
COLD DESERT	1	2	1	1	2	2	3	2	3	1	2	0	1	0	2	3	0	2	1	1	3	3	3
TUNDRA	2	4	0	1	4	4	4	2	4	3	2	1	0	2	2	4	1	3	2	1	2	4	4
TEMPERATE GRASSLAND	6	7	2	5	7	6	7	1	7	4	4	2	1	3	5	6	5	5	6	0	6	5	6
COMPLEX MOUNTAIN SYSTEMS	29	33	10	19	38	39	40	16	32	18	13	0	6	16	22	37	22	39	28	5	34	40	37
MIXED ISLAND SYSTEMS	3	3	1	4	5	3	4	2	6	3	3	2	0	1	3	4	2	4	3	0	4	5	6
LAKE SYSTEMS	1	2	2	1	2	1	2	2	1	1	0	0	2	1	2	2	2	1	1	2	2	2	2
TOTAL BIOSPHERE RESERVES (EX 170)	126	146	59	109	152	146	151	80	146	96	81	29	28	68	119	130	108	136	105	35	132	148	147
PERCENT OF TOTAL	74%	86%	35%	64%	89%	86%	89%	47%	86%	56%	48%	17%	16%	40%	70%	76%	64%	80%	62%	21%	78%	87%	86%

SUMMARY INFORMATION

NUMBER OF BIOSPHERE RESERVES IN BIOME REPORTING INFORMATION FOR CATEGORY

	BASIC RESOURCE INFORMATION						RESEARCH TOPICS													
	HISTORICAL RECORDS						ECOSYSTEM CYCLES AND PROCESSES							SPECIES POPULATIONS			POLLUTION			
BIOME:	AERIAL PHOTOGRAPHS	BIBLIOGRAPHY	BIBLIOGRAPHY - NUMBER OF REFERENCES	BIBLIOGRAPHY - YEAR OF LAST REVISION	GEOGRAPHIC INFORMATION SYSTEM	HISTORY OF SCIENTIFIC STUDY	BIOGEOCHEMICAL CYCLES	COMPARATIVE ECOLOGICAL RESEARCH	ECOLOGICAL SUCCESSION	ECOSYSTEM MODELING	FIRE HISTORY/EFFECTS	HYDROLOGICAL CYCLE	SEDIMENTATION	PESTS AND DISEASES	RARE/ENDANGERED SPECIES	WILDLIFE POPULATION DYNAMICS	ACIDIC DEPOSITION	ATMOSPHERIC POLLUTANTS	PESTICIDES	WATER POLLUTANTS
TEMPERATE RAINFOREST	4	3	2	2	1	2	2	2	4	2	3	1	4	2	4	4	4	2	0	2
TEMPERATE NEEDLE-LEAF FOREST	6	6	2	2	1	5	3	6	6	3	4	4	5	5	6	8	4	6	2	6
TROPICAL DRY FOREST	1	1	0	0	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1
TEMPERATE BROAD-LEAF FOREST	58	51	18	19	22	48	26	44	51	28	23	32	41	29	55	51	35	36	18	40
EVERGREEN SCLEROPHYLLOUS WOODLAND	18	19	5	6	6	16	8	12	16	12	17	12	8	11	17	18	5	9	5	10
WARM DESERT	4	4	2	2	4	5	1	3	4	4	4	5	1	3	3	4	3	3	3	3
COLD DESERT	2	3	0	0	1	3	1	3	2	1	1	2	0	2	1	2	0	2	0	1
TUNDRA	4	3	1	1	0	4	1	3	3	2	1	1	1	1	3	4	2	3	1	1
TEMPERATE GRASSLAND	4	7	2	2	3	7	6	7	6	4	6	4	4	5	6	7	4	3	4	3
COMPLEX MOUNTAIN SYSTEMS	25	31	9	9	8	20	10	26	25	17	10	16	33	18	33	24	15	14	8	13
MIXED ISLAND SYSTEMS	5	6	1	1	3	4	3	5	5	2	2	3	3	2	5	5	1	0	1	1
LAKE SYSTEMS	2	2	2	2	1	2	1	1	2	1	1	0	1	1	2	2	1	2	0	1
TOTAL BIOSPHERE RESERVES (EX 170)	133	136	44	46	51	116	63	113	125	77	73	81	101	79	136	130	75	81	43	82
PERCENT OF TOTAL	78%	80%	26%	27%	30%	68%	37%	66%	74%	45%	43%	48%	59%	46%	80%	76%	44%	48%	25%	48%

SUMMARY INFORMATION

RESEARCH TOPICS

NUMBER OF BIOSPHERE RESERVES IN BIOME REPORTING INFORMATION FOR CATEGORY

	HUMAN SYSTEMS							MANAGEMENT PRACTICES									
BIOME:	ARCHAEOLOGY	CULTURAL ANTHROPOLOGY	DEMOGRAPHY/SETTLEMENT PATTERNS	ETHNOBIOLOGY	LAND TENURE/ USE/MANAGEMENT	RESOURCE ECONOMICS	TRADITIONAL LAND USE SYSTEMS	AGRICULTURAL	APPROPRIATE RURAL TECHNOLOGY	ECOSYSTEM RESTORATION	GENETIC RESOURCE MANAGEMENT	MINING RECLAMATION	RANGELAND MANAGEMENT	RECREATION/TOURISM	RESOURCE PRODUCTION TECHNOLOGIES	SOIL CONSERVATION	WATERSHED MANAGEMENT
TEMPERATE RAINFOREST	2	3	2	0	2	1	3	0	0	3	2	2	0	2	1	3	1
TEMPERATE NEEDLE-LEAF FOREST	2	5	2	2	3	1	4	1	1	4	2	5	0	4	2	5	3
TROPICAL DRY FOREST	0	0	0	0	0	0	1	0	0	1	1	1	1	1	0	1	1
TEMPERATE BROAD-LEAF FOREST	14	23	16	15	14	11	40	30	21	46	28	25	17	44	13	39	26
EVERGREEN SCLEROPHYLLOUS WOODLAND	5	12	3	6	5	4	10	10	5	16	7	6	8	17	3	13	9
WARM DESERT	2	3	1	3	1	0	3	2	2	4	0	2	2	3	1	3	3
COLD DESERT	0	0	1	0	1	1	2	0	0	2	0	1	1	1	1	1	0
TUNDRA	0	2	0	0	0	0	3	0	1	2	0	2	0	2	0	0	0
TEMPERATE GRASSLAND	2	4	1	2	4	1	5	5	4	3	3	2	5	2	2	6	4
COMPLEX MOUNTAIN SYSTEMS	6	2	3	2	3	2	17	7	3	17	9	8	9	14	5	19	7
MIXED ISLAND SYSTEMS	0	2	0	1	1	0	2	1	1	4	3	0	0	4	1	2	3
LAKE SYSTEMS	2	2	1	1	2	1	0	0	0	2	1	0	0	1	0	0	1
TOTAL BIOSPHERE RESERVES (EX 170)	35	58	30	32	36	22	90	56	38	104	56	54	43	95	29	92	58
PERCENT OF TOTAL	21%	34%	18%	19%	21%	13%	53%	33%	22%	61%	33%	32%	25%	56%	17%	54%	34%

SITE SUPPORT

SUMMARY INFORMATION

NUMBER OF BIOSPHERE RESERVES IN BIOME REPORTING INFORMATION FOR CATEGORY

	INFRASTRUCTURE						MONITORING AND RESEARCH FACILITIES						
BIOME:	CONFERENCE FACILITIES	CURATORIAL FACILITY	LABORATORY	LIBRARY	LODGING FOR SCIENTISTS	ROAD ACCESS	AIR POLLUTION STATION	HYDROLOGICAL STATION	PERMANENT PLOTS: LAKE/STREAM	PERMANENT PLOTS: VEGETATION	WATERSHED RESEARCH SITE	WEATHER STATION	PERMANENT RESEARCH STAFF
TEMPERATE RAINFOREST	3	2	2	3	4	2	3	2	1	3	3	4	4
TEMPERATE NEEDLE-LEAF FOREST	6	6	6	8	5	7	4	5	4	5	7	6	6
TROPICAL DRY FOREST	1	1	0	1	1	0	1	1	0	1	0	1	1
TEMPERATE BROAD-LEAF FOREST	52	31	45	45	47	46	35	38	15	39	22	53	36
EVERGREEN SCLEROPHYLLOUS WOODLAND	15	13	16	16	17	22	4	15	4	7	6	18	15
WARM DESERT	4	3	4	4	4	4	3	5	0	4	2	5	3
COLD DESERT	2	3	2	2	2	3	2	1	1	0	0	3	2
TUNDRA	2	3	2	4	1	2	2	2	0	3	1	4	3
TEMPERATE GRASSLAND	7	5	7	4	7	7	3	2	3	4	3	5	6
COMPLEX MOUNTAIN SYSTEMS	24	13	16	20	30	30	15	22	7	20	10	30	22
MIXED ISLAND SYSTEMS	4	3	4	4	4	5	0	2	3	3	3	6	5
LAKE SYSTEMS	1	1	1	2	2	1	2	1	1	1	1	2	0
TOTAL BIOSPHERE RESERVES (EX 170)	121	84	105	113	124	129	74	96	39	90	58	137	103
PERCENT OF TOTAL	71%	49%	62%	66%	73%	76%	44%	56%	23%	53%	34%	81%	61%

SUMMARY INFORMATION: FREQUENCY OF DATABASES

%	Bio. Res. #	CATEGORY
		BASIC RESOURCE INFO
		BIOLOGICAL INVENTORY
89.4%	152	VASCULAR PLANTS
88.8%	151	BIOLOGICAL SURVEY AND COLLECTIONS
85.9%	146	MAMMALS
85.9%	146	VERTEBRATES OTHER THAN MAMMALS
74.1%	126	INVERTEBRATES
64.1%	109	NONVASCULAR PLANTS
34.7%	59	BIRDS
		ECOLOGICAL MONITORING
85.9%	146	CLIMATE
76.5%	130	VEGETATION DATA
70.0%	119	SURFACE HYDROLOGY
63.5%	108	WATER QUALITY
56.5%	96	FRESHWATER ECOSYSTEMS
47.6%	81	GROUNDWATER HYDROLOGY
47.1%	80	AIR QUALITY
40.0%	68	PRECIPITATION CHEMISTRY
17.1%	29	MARINE ECOSYSTEMS
16.5%	28	PALEOECOLGY
		RESOURCE MAPS
87.1%	148	TOPOGRAPHIC
86.5%	147	VEGETATION
80.0%	136	GEOLOGICAL
77.6%	132	SOILS
61.8%	105	LAND USE
20.6%	35	REGIONAL LAND TENURE
		HISTORICAL RECORDS
80.0%	136	BIBLIOGRAPHY
78.2%	133	AERIAL PHOTOGRAPHS
68.2%	116	HISTORY OF SCIENTIFIC STUDY
30.0%	51	GEOGRAPHIC INFORMATION SYSTEM
		RESEARCH TOPICS
		ECOSYSTEM CYCLES AND PROCESSES
73.5%	125	ECOLOGICAL SUCCESSION
66.5%	113	COMPARITIVE ECOLOGICAL RESEARCH
59.4%	101	SEDIMENTATION
47.6%	81	HYDROLOGICAL CYCLE
45.3%	77	ECOSYSTEM MODELING
42.9%	73	FIRE HISTORY AND EFFECTS
37.1%	63	BIOGEOCHEMICAL CYCLES

SUMMARY INFORMATION: FREQUENCY OF DATABASES

%	Bio. Res.	#	CATEGORY
			SPECIES POPULATIONS
80.0%		136	RARE AND ENDANGERED SPECIES
76.5%		130	WILDLIFE POPULATION DYNAMICS
46.5%		79	PESTS AND DISEASES
			RESEARCH TOPICS
			POLLUTION
48.2%		82	WATER POLLUTANTS
47.6%		81	ATMOSPHERIC POLLUTANTS
44.1%		75	ACIDIC DEPOSITION
25.3%		43	PESTICIDES
			HUMAN SYSTEMS
52.9%		90	TRADITIONAL LAND USE SYSTEMS
34.1%		58	CULTURAL ANTHROPOLOGY
21.2%		36	LAND TENURE/ USE/MANAGEMENT
20.6%		35	ARCHAEOLOGY
18.8%		32	ETHNOBIOLOGY
17.6%		30	DEMOGRAPHY/SETTLEMENT PATTERNS
12.9%		22	RESOURCE ECONOMICS
			MANAGEMENT PRACTICES
61.2%		104	ECOSYSTEM RESTORATION
55.9%		95	RECREATION AND TOURISM
54.1%		92	SOIL CONSERVATION
34.1%		58	WATERSHED MANAGEMENT
32.9%		56	AGRICULTURAL
32.9%		56	GENETIC RESOURCE MANAGEMENT
31.8%		54	MINING RECLAMATION
25.3%		43	RANGELAND MANAGEMENT
22.4%		38	APPROPRIATE RURAL TECHNOLOGY
17.1%		29	RESOURCE PRODUCTION TECHNOLOGIES
			SITE SUPPORT
			INFRASTRUCTURE
75.9%		129	ROAD ACCESS
72.9%		124	LODGING FOR SCIENTISTS
71.2%		121	CONFERENCE FACILITIES
66.5%		113	LIBRARY
61.8%		105	LABORATORY
49.4%		84	CURATORIAL FACILITY
			MONITORING AND RESEARCH FACILITIES
80.6%		137	WEATHER STATION
56.5%		96	HYDROLOGICAL STATION
52.9%		90	PERMANENT PLOTS: VEGETATION
43.5%		74	AIR POLLUTION STATION
34.1%		58	WATERSHED RESEARCH SITE
22.9%		39	PERMANENT PLOTS: LAKE/STREAM
60.6%		103	PERMANENT RESEARCH STAFF

SUMMARY INFORMATION: FREQUENCY OF DATABASES

%	Bio. Res. #	CATEGORY
89.4%	152	VASCULAR PLANTS
88.8%	151	BIOLOGICAL SURVEY AND COLLECTIONS
87.1%	148	TOPOGRAPHIC
86.5%	147	VEGETATION
85.9%	146	MAMMALS
85.9%	146	VERTEBRATES OTHER THAN MAMMALS
85.9%	146	CLIMATE
80.6%	137	WEATHER STATION
80.0%	136	GEOLOGICAL
80.0%	136	BIBLIOGRAPHY
80.0%	136	RARE AND ENDANGERED SPECIES
78.2%	133	AERIAL PHOTOGRAPHS
77.6%	132	SOILS
76.5%	130	VEGETATION DATA
76.5%	130	WILDLIFE POPULATION DYNAMICS
75.9%	129	ROAD ACCESS
74.1%	126	INVERTEBRATES
73.5%	125	ECOLOGICAL SUCCESSION
72.9%	124	LODGING FOR SCIENTISTS
71.2%	121	CONFERENCE FACILITIES
70.0%	119	SURFACE HYDROLOGY
68.2%	116	HISTORY OF SCIENTIFIC STUDY
66.5%	113	COMPARITIVE ECOLOGICAL RESEARCH
66.5%	113	LIBRARY
64.1%	109	NONVASCULAR PLANTS
63.5%	108	WATER QUALITY
61.8%	105	LAND USE
61.8%	105	LABORATORY
61.2%	104	ECOSYSTEM RESTORATION
60.6%	103	PERMANENT RESEARCH STAFF
59.4%	101	SEDIMENTATION
56.5%	96	FRESHWATER ECOSYSTEMS
56.5%	96	HYDROLOGICAL STATION
55.9%	95	RECREATION AND TOURISM
54.1%	92	SOIL CONSERVATION
52.9%	90	TRADITIONAL LAND USE SYSTEMS
52.9%	90	PERMANENT PLOTS: VEGETATION

SUMMARY INFORMATION: FREQUENCY OF DATABASES

%	Bio. Res.	#	CATEGORY
49.4%		84	CURATORIAL FACILITY
48.2%		82	WATER POLLUTANTS
47.6%		81	GROUNDWATER HYDROLOGY
47.6%		81	HYDROLOGICAL CYCLE
47.6%		81	ATMOSPHERIC POLLUTANTS
47.1%		80	AIR QUALITY
46.5%		79	PESTS AND DISEASES
45.3%		77	ECOSYSTEM MODELING
44.1%		75	ACIDIC DEPOSITION
43.5%		74	AIR POLLUTION STATION
42.9%		73	FIRE HISTORY AND EFFECTS
40.0%		68	PRECIPITATION CHEMISTRY
37.1%		63	BIOGEOCHEMICAL CYCLES
34.7%		59	BIRDS
34.1%		58	CULTURAL ANTHROPOLOGY
34.1%		58	WATERSHED MANAGEMENT
34.1%		58	WATERSHED RESEARCH SITE
32.9%		56	AGRICULTURAL
32.9%		56	GENETIC RESOURCE MANAGEMENT
31.8%		54	MINING RECLAMATION
30.0%		51	GEOGRAPHIC INFORMATION SYSTEM
25.3%		43	PESTICIDES
25.3%		43	RANGELAND MANAGEMENT
22.9%		39	PERMANENT PLOTS: LAKE/STREAM
22.4%		38	APPROPRIATE RURAL TECHNOLOGY
21.2%		36	LAND TENURE/ USE/MANAGEMENT
20.6%		35	REGIONAL LAND TENURE
20.6%		35	ARCHAEOLOGY
18.8%		32	ETHNOBIOLOGY
17.6%		30	DEMOGRAPHY/SETTLEMENT PATTERNS
17.1%		29	MARINE ECOSYSTEMS
17.1%		29	RESOURCE PRODUCTION TECHNOLOGIES
16.5%		28	PALEOECOLGY
12.9%		22	RESOURCE ECONOMICS